REMEDIAL INVESTIGATION WORK PLAN

for

1480 SHERIDAN BOULEVARD
Bronx, New York
BCP Site No. TBD

Prepared for:

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Larchmont, New York 10538

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CERTIFICATION

I, Brian Gochenaur, certify that I am currently a Qualified Environmental Professional (QEP) as defined in 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 and that this Remedial Investigation Work Plan (RIWP) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation DER Green Remediation (DER-31).

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Brian Gochenaur, QEP

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1.0 INTRODUCTION

This Remedial Investigation Work Plan (RIWP) was prepared on behalf of 1480 Sheridan Affordable Owner LLC (the Requestor), which is the developer of the property at 1480 Sheridan Boulevard in Bronx, New York (the site). This RIWP is being submitted in conjunction with the Requestor's application for the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

The objective of the Remedial Investigation (RI) is to characterize the nature and extent of environmental impacts at and emanating from the site and to provide sufficient information to evaluate remedial alternatives and threats to human health and the environment, as required. This RIWP was developed in accordance with the process and requirements identified in the NYSDEC Division of Environmental Remediation (DER)-10: *Technical Guidance for Site Investigation and Remediation* (May 2010), the New York State Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (October 2006, with updates including February 2024) and *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs* (April 2023).

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2.0 SITE BACKGROUND

2.1 Site Description

The about 61,988 square-foot (±1.42 acre) site is located at 1480 Sheridan Boulevard within an urbanized area of the Crotona Park East neighborhood of the Bronx, New York and is identified on the Bronx Borough Tax Map as Block 3017, Lot 29. Lot 29 is being subdivided into two lots: Lots 29 and 30. Proposed Lot 29 (the site) is the subject of this RIWP. A site location map is provided as Figure 1. The site is improved with part of the East End Parking Corporation commercial building in the southwestern part of the site; the remainder of the site is a paved parking lot with a garage structure in the northeastern part of the site. A site plan is provided as Figure 2.

According to the New York City Planning Commission Zoning Map 3d, the site is located within the R7-3/C2-4 (medium-density residential and commercial) district. This project responds to and is fully consistent with the goals of the City Council as embodied in the NYC Zoning Districts and provides additional affordable housing in a growing neighborhood.

2.2 Surrounding Property Land Use

The site is in a mixed-use area with residential, commercial, institutional, and industrial properties. The following is a summary of adjacent and surrounding property usage:

Direction	Adjoining Properties	Surrounding Area
North	Vacant lot owned by Sheridan Blvd Apartments LLC (1428 Edgewater Road)	Residential and mixed-use buildings, and miscellaneous use properties and parking lots.
East	Bronx River and City of New York Railroad (Westchester Avenue)	Public parks, City of New York Railroad, and mixed-use buildings.
South	City of New York Railroad, auto body repair followed by Westchester Avenue (1476 Sheridan Boulevard)	Public transportation and parks.
West	Proposed Lot 30 (1484 Sheridan Boulevard) followed by Edgewater Road	Public parks and schools, followed by mixed-use residential buildings.

Public infrastructure (e.g., storm drains, sewers, and underground utility lines) exists within the streets surrounding the site. A land use map showing the adjacent and surrounding properties is provided as Figure 3.

Land use within a half-mile radius is urban and includes residential, commercial and industrial uses, institutional/public services, and parks. The nearest ecological receptors are the Bronx River (located directly east of the site) and the Harlem River (located about 2.5 miles west of the site).

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Sensitive receptors, as defined in DER-10, located within a half-mile of the site include those listed below:

Number	Name (Approximate distance from site)	Address
1	Daniel Boone Playground (about 0.01 miles west of the site)	1340 West Farms Road Bronx, NY 10459
2	P.S. X811 (about 0.12 miles west of the site)	1434 Longfellow Avenue Bronx, NY 10459
3	Fannie Lou Hamer Freedom High School (about 0.1 miles northwest of the site)	1021 Jennings Street Bronx, NY 10460
4	Starlight Park Dog Run (about 0.1 miles east of the site)	1374 East 172nd Street Bronx, NY 10459
5	P.S. 066 School of Higher Education (about 0.15 miles northwest of the site)	10001 Jennings Street Bronx, NY 10469
6	Fannie Lou Hamer Middle School – X286 (about 0.15 miles northwest of the site)	10001 Jennings Street Bronx, NY 10460
7	Samara Community School (about 0.3 miles north of the site)	1570 Boone Avenue Bronx, NY 10460
8	Tiny Tunes Daycare Evergreen Inc - XCEQ (about 0.43 miles southeast of the site)	1144 Evergreen Avenue Bronx, NY 10472
9	Saint John Chrysostom School - XADT (about 0.47 miles southwest of the site)	1144 Hoe Avenue Bronx, NY 10459
10	East Bronx Day Care Center - XAHL (about 0.47 miles southeast of the site)	1113 Colgate Avenue Bronx, NY 10472
11	"Magical Beginnings" Day Care (about 0.3 miles northwest of the site)	1016 East 172nd Street Bronx, NY 10460
12	Star Light Start Bright Daycare (about 0.5 miles southeast of the site)	1145 Evergreen Avenue Bronx, NY 10472
13	Fairmont Neighborhood School – X314 (about 0.38 miles northwest of the site)	1550 Vyse Avenue Bronx, NY 10460
14	Yaby's Family Daycare (about 0.5 miles southwest of the site)	1138 Colgate Avenue Bronx, NY 10472

2.3 Site Physical Conditions

2.3.1 Topography

According to the 2023 United States Geological Survey (USGS) 7.5-minute quadrangle topographic map for Central Park, New York-New Jersey, the site elevation (el) ranges from about el 7 in the central part of the site to about el 20 in the northwestern part of the site. The regional

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topography slopes downward toward the east, toward the Bronx River (adjacent to the east of the site).

2.3.2 Geology

According to observations noted in the November 23, 2021 Phase II Environmental Site Assessment (ESA) Report prepared by Environmental Engineering Compliance Control, D.P.C. (EECC), the March 2026 Geotechnical Evaluation Report prepared by GEODesign, Inc. P.C. (GEODesign), and the April 2026 Limited Subsurface Investigation (LSI) completed by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C (Langan), the site is underlain by a fill layer predominantly consisting of grayish to dark tan to black, fine-grained sand with varying amounts of fine gravel, brick and concrete, and cobbles from surface grade to depths ranging from 5 to 15 feet below grade surface (bgs). The observed fill layer is followed by a grayish tan to black clay layer across the site.

According to a review of the "Bedrock and Engineering Geologic Maps of Bronx County and Parts of New York and Queens Counties, New York" by Charles A. Baskerville, et al., the bedrock underlying the site is of the Hartland formation, which consists of muscovite-biotite-quartz schist, gneiss, and amphibolite. Geological surface features (e.g., rock outcroppings) were not observed at the site. According to the March 2026 Geotechnical Evaluation Report, soft rock was identified at depths ranging from 8.5 to 38.5 feet bgs and competent bedrock was identified from 5 to 45 feet bgs at the site. Weathered bedrock was observed between 7 and 13 feet across the site during the LSI.

2.3.3 Hydrogeology

Groundwater was encountered between about 4 feet and 8 feet bgs during the previous Phase II ESA and LSI. Based on the local topography and proximity to nearby surface water features, the inferred groundwater flow direction in the vicinity of the site is to the east or southeast toward the Bronx River.

2.3.4 Wetlands

Wetlands were evaluated by reviewing the National Wetlands Inventory and NYSDEC-regulated wetlands map; there are no wetlands on the site. The closest wetland to the site is the Bronx River, located directly east of the site.

2.4 Proposed Redevelopment

Current plans call for the development of a 30-story residential building with a cellar level. The cellar level will primarily contain storage areas, mechanical rooms and parking. The remaining floors will include a residential tower with associated amenities such as a fitness center, a children's playroom, coworking space, and a multi-purpose room. All of the residential units will be designated as affordable housing.

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2.5 Summary of Previous Site Use

A review of historical records indicates that the site has been located in a densely developed urban area characterized by commercial and industrial uses since at least the 1890s.

Between at least 1896 and 1915, the site was occupied by a coal and lumber yard. By 1950, relevant site uses included a contractor's yard, building materials storage, and a concrete slab manufacturer (Flexicore Co.) The site was operated as a contractor's yard (Corbetta Construction Co.) with an auto parts warehouse/auto wrecking yard from at least 1977 to at least 2007. According to city directories, the site was operated by an automotive parts retail/wholesale business and auto wrecking yard in the mid-2000s to mid-2010s, and the site is currently operating as a truck parking yard with open garage structures and a commercial office building.

The presence of petroleum-related volatile organic compounds (VOC) in site soil above 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 protection of groundwater (PGW) soil cleanup objectives (SCO) in a discrete area in the northern part of the site, and the presence of petroleum-related VOCs in groundwater above the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) and Guidance Values for Drinking Water (Class GA) (collectively referred to as "SGVs") and in soil vapor throughout the site are likely related to former industrial site operations, including the former auto parts warehouse and auto wrecking yard. Semivolatile organic compounds (SVOC), particularly polycyclic aromatic hydrocarbons (PAH), identified in site soil are likely associated with former site operations as a coal and lumber yard due to the storage of raw coal and wood, and the use of wood preservatives, but may also be attributed to historical infilling. Lead, arsenic and mercury in site soil can possibly be attributed to historical industrial use of the site.

2.6 Summary of Previous Environmental Investigations

Previous environmental reports were reviewed to inform this RIWP. These reports are summarized below and are included in Appendix A, and historical sample locations and analytical results that exceed applicable regulatory criteria for soil, groundwater and soil vapor are presented on Figures 4, 5, and 6, respectively.

- *December 21, 2018 Phase I Environmental Site Assessment (ESA) for 1460 and 1480 Sheridan Expressway, prepared by CDM Smith*
- *November 23, 2021 Phase II Environmental Investigation (EI) Report for 1460 and 1480 Sheridan Expressway, prepared by Environmental Engineering Compliance Control, D.P.C.*
- *July 20, 2026 Limited Subsurface Investigation (LSI) Report for 1484 Sheridan Boulevard, prepared by Langan*

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Environmental reports and sampling events are summarized below and included with this attachment.

December 21, 2018 Phase I ESA for 1460 and 1480 Sheridan Expressway, Bronx, New York, prepared by CDM Smith

CDM Smith prepared a Phase I ESA in December 2018 for Simone Development Companies. The Phase I ESA identified the following Recognized Environmental Conditions (REC):

- Historical uses of the site for an iron yard, concrete manufacturing, and automotive maintenance since the 1890s
- Potential vapor intrusion due to the historical operations at the site
- Three gasoline/diesel underground storage tanks (UST) that were closed and removed from the site however no post-excavation sampling was documented; four aboveground storage tanks (AST) were reportedly closed and one AST was reportedly removed from the property. The possible presence of USTs and ASTs on the site and lack of documentation was considered a REC.
- Presence of trench drains on-site; the possible migration of contamination through trench drains from historical site uses is considered a REC.
- An in-ground hydraulic lift was observed at the subject property; potential contamination from possible releases of hydraulic oil and fluids is considered a REC
- Surficial staining was observed at the subject property and is considered a REC.
- Potential off-site contamination from upgradient neighboring sites (e.g. drycleaners, voluntary cleanup program and BCP sites with industrial past uses, and multiple auto repair and gas/service stations)

Environmental Site Investigations

November 23, 2021 Phase II ESA for 1460 and 1480 Sheridan Expressway, Bronx, New York, prepared by Environmental Engineering Compliance Control (EECC), D.P.C.

EECC prepared a Phase II ESA for the properties located at 1460 and 1480 Sheridan Expressway in November 2021 on behalf of Simone Development Companies. For proposed new Lot 29, the Phase II ESA included a geophysical survey of all accessible areas, advancement of ten soil borings to a maximum depth of 10 feet bgs, installation of three permanent groundwater monitoring wells, and the collection and laboratory analysis of soil and groundwater samples. The observations and analytical results are summarized below.

Soil samples were analyzed for NYCRR Part 375 VOC, SVOC, polychlorinated biphenyls (PCB), diesel range organics (DRO), gasoline range organics (GRO), and target analyte list (TAL) metals. Groundwater samples were analyzed for target compound list (TCL) VOCs, SVOCs, and TAL metals.

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Soil analytical results were compared to the NYCRR Part 375 PGW, Restricted Use Restricted-Residential (RURR), Commercial Use (RUC), Industrial Use (RUI) and Soil Cleanup Objectives (SCO). Groundwater analytical results were compared to the NYSDEC SGVs. Photoionization detector (PID) readings above background and/or petroleum-like odors were observed in four soil borings and a maximum PID reading of 1,990 parts per million (ppm) was observed. VOCs, SVOCs, metals, and total PCBs were detected above applicable SCOs in soil samples. Petroleum-related VOCs, SVOCs, metals and PFAS were detected in groundwater samples. Soil vapor samples were not collected during the Phase II ESA.

The associated laboratory analytical reports and soil boring logs from the Phase II ESA are included in the Phase II ESA report as an attachment.

July 20, 2026 Limited Subsurface Investigation Report for 1480 Sheridan Boulevard, Bronx, New York, conducted by Langan

Langan prepared an LSI Report documenting the investigation completed in April 2026 on behalf of 1480 Sheridan Affordable Owner LLC for the property located at 1480 Sheridan Boulevard in Bronx, New York, Tax Block 3017, Lot 29. Lot 29 is being subdivided into two lots: Lots 29 and 30. The LSI report summarizes work completed for proposed Lot 29. The LSI included a geophysical survey of all accessible areas, advancement of five soil borings to a maximum depth of 15 feet bgs, installation of one temporary groundwater monitoring well and two temporary soil vapor points, and the collection and laboratory analysis of soil, groundwater and soil vapor samples.

Soil and groundwater samples were analyzed for NYSDEC NYCRR Part 375 VOCs, SVOCs, PCBs, pesticides and/or TAL metals including trivalent and hexavalent chromium. Soil vapor samples were analyzed for TO-15 VOCs.

Results

Soil analytical results were compared to the NYCRR Part 375 PGWs, RURRs, RUCs, RUIs and SCOs Groundwater analytical results were compared to the NYSDEC SGVs.

Field observations and laboratory analytical results of the Phase II ESA and LSI are summarized below:

- Site Geology and Hydrogeology: The site is underlain by fill, predominantly consisting of grayish to dark tan to black, fine-grained sand with varying amounts of fine gravel, brick and concrete, and cobbles that extends below the surface cover to between 5 and 15 feet bgs across the site. The observed fill layer is followed by a grayish tan to black clay layer across the site. According to a March 2026 Geotechnical Evaluation Report prepared for the site by GEODesign, soft rock was identified at depths ranging from 8.5 to 38.5 feet bgs and competent bedrock was identified from 5 to 45 feet bgs at the site. Weathered bedrock was observed between 7 and 13 feet across the site. Groundwater

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was encountered between about 3 and 9 feet below bgs during the LSI and geotechnical investigation. Based on the local topography and proximity to nearby surface water features, the inferred groundwater flow direction in the vicinity of the site is to the east or southeast toward the Bronx River.

- Soil: PID readings above background and/or petroleum-like odors were observed in one soil boring, with a maximum PID reading of 18 ppm. VOCs, SVOCs, PCBs, and metals were detected above the PGW, RURR, RUC and/or RUI SCOs in soil borings located throughout the site.
- Groundwater: SVOCs, and total and dissolved metals were detected above the SGVs in groundwater samples.
- Soil Vapor: Petroleum-related VOCs were detected in each of the two soil vapor samples. Total VOCs were detected at 17,856.1 micrograms per cubic meter (µg/m^3) in SSV05 and 27,628.4 µg/m^3 in SSV01.

The referenced reports and available laboratory data packages for the investigation are included in Appendix A.

2.7 Areas of Concern

The areas of concern (AOC) to be further investigated during the RI are described below and shown on Figure 7:

AOC 1: Sitewide Historical Use as a Coal and Lumber Yard

Non-native fill, predominantly consisting of grayish to dark tan to black, fine-grained sand with varying amounts of fine gravel, brick and concrete, and cobbles extends below the surface cover to between 5 feet and about 15 feet bgs. Contaminants associated with non-native fill were identified in soil samples (0 to 12 feet bgs), including concentrations of SVOCs and metals exceeding the PGW, RURR, RUC and RUI SCOs. The source of SVOCs, particularly PAHs, and metals identified in site soil are likely attributed to historical industrial operations as a coal and lumber yard.

AOC 2: Historical Site Use as a Concrete Manufacturer and Auto Parts Warehouse and Wrecking Yard

By 1850, operations in the southwestern part of the site included a concrete slab manufacturer and by at least 1979 to the mid-2000s operations included an auto parts warehouse and wrecking yard. Petroleum-related VOCs were identified in site soil vapor and can be attributed to historical use as an auto parts warehouse and wrecking yard. Lead, arsenic, and mercury identified in site soil can be attributed to historical use of the site as an auto parts warehouse and wrecking yard as well as a concrete slab manufacturer as these metals can be found in cement and concrete manufacturing.

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AOC 3: Petroleum Impacts in Soil, Groundwater, and Soil Vapor

Previous investigations identified petroleum-related VOCs in soil, groundwater, and soil vapor in the northern part of the site at concentrations above the NYSDEC 6 NYCRR UU, RURR, PGW, Restricted Use Industrial (RUI) SCOs and/or NYSDEC SGVs. A maximum PID reading of 1,990 ppm, petroleum-like odors and staining were observed in soil borings B-2 and B-3. Petroleum-related VOCs were detected at concentrations exceeding the PGW, RURR, and/or the RUI SCOs were identified in soil borings B-2 and B3, and above the NYSDEC SGVs in groundwater collected from monitoring well MW-1.

AOC 4: Suspected Underground Storage Tank (UST)

The EECC 2021 Phase II ESA identified a remaining UST on the eastern side of the property. The size and operating status of the UST were unable to be determined at that time. Due to access limitations, additional soil borings have not been advanced in this location and the potential for impacts may exist.

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3.0 SCOPE OF INVESTIGATION

The objective of the RI is to determine and characterize the nature and extent of environmental impacts at or emanating from the site, and to provide sufficient information to evaluate remedial alternatives and threats to human health and the environment. The rationale for each sampling location in relation to the AOCs and analytical parameters for each proposed sample are provided in Table 1. Proposed sample locations are shown on Figure 7. The field tasks are discussed in more detail in the following sections.

Geophysical Survey

- Perform a geophysical survey to locate potential unidentified USTs or underground structures and identify utilities. Proposed RI sample locations may be relocated as necessary based on the findings of the geophysical survey.

Soil Borings and Sampling

- Advance 28 soil borings to either the first underlying depth interval without evidence of impacts or non-native material or to about 15 feet bgs.
- Collect three samples from each soil boring for a total of 60 soil samples (plus quality assurance/quality control [QA/QC] samples) for laboratory analysis.

Monitoring Well Installation and Sampling

- Install and develop twelve permanent monitoring wells.
- Collect one groundwater sample from each of the permanent groundwater monitoring wells (plus QA/QC samples) for laboratory analysis.
- Survey and gauge monitoring wells to establish groundwater elevations and flow direction, and to evaluate the potential presence of non-aqueous phase liquid (NAPL).
- Develop a groundwater contour map.

Soil Vapor and Ambient Air Sampling

- Install eight soil vapor points beneath the site cover.
- Collect eight soil vapor samples, and one ambient air sample for laboratory analysis.

Modifications to this scope of work may be required: 1) due to site operations, equipment or other access restrictions; 2) in the event that unexpected contamination is detected, and additional analytical data is needed; and 3) to adequately characterize and delineate subsurface impacts in compliance with the Brownfield Law, regulations and applicable investigation guidance documents (e.g., DER-10). NYSDEC and NYSDOH will be contacted to obtain approval for these modifications.

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The field investigation will be completed in accordance with NYSDEC DER-10 Guidance and the procedures specified in the Health and Safety Plan (HASP) and the Quality Assurance Project Plan (QAPP) included as Appendices B and C, respectively. A Community Air Monitoring Plan (CAMP) will be implemented during this investigation (see Section 3.7.1 and Appendix D).

The names, contact information and roles of the principal personnel who will participate in the investigation are listed below. The HASP contains emergency contact information (HASP Table 5). Resumes for Langan employees involved in the project are included in the QAPP (Appendix C).

Personnel	Investigation Role	Contact Information
Brian Gochenaur, QEP Langan	Qualified Environmental Professional	Phone – 212-479-5479 Email – bgochenaur@langan.com
Gerald Nicholls, PE Langan	Project Engineer	Phone – 212-479-5559 Email – gnicholls@langan.com
Michael Burke, PG, CHMM Langan	Quality Assurance Officer	Phone – 212-479-5413 Email – mburke@langan.com
Tony Moffa, CHMM Langan	Langan Health & Safety Officer	Phone – 215-491-6500 Email – tmoffa@langan.com
William Bohrer, PG Langan	Field Safety Officer	Phone – 410-984-3068 Email – wbohrer@langan.com
Kimberly Semon, PE Langan	Project Manager	Phone – 212-479-5486 Email – ksemon@langan.com
Caroline Devin Langan	Field Team Leader	Phone – 212-479-5743 Email – cdevin@langan.com
Joseph Conboy Langan	Program Quality Assurance Monitor/Data Validator	Phone – 609.282.8055 Email – jconboy@langan.com

3.1 Geophysical Survey

A geophysical survey will be performed prior to the RI to locate unidentified USTs or underground structures and identify utilities. Proposed RI sample locations may be relocated as necessary based on the findings of the geophysical survey.

3.2 Soil Investigation

3.2.1 Drilling and Logging

An environmental drilling subcontractor will advance 28 soil borings (designated RISB01 through RISB28) to further investigate the AOCs identified in Section 2.6. A plan showing the AOCs and the proposed boring locations is included as Figure 7. Langan field personnel will document the work, screen the soil samples for environmental impacts, and collect environmental samples for laboratory analyses under the direct supervision of a Qualified Environmental Professional.

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Soil borings will be advanced to 15 feet bgs or the top of bedrock (whichever is shallower), using direct-push drilling technology (Geoprobe®). Soil will be screened continuously to the boring termination depth or until bedrock is observed with a PID equipped with a 10.6 electron volt (eV) bulb and for visual and olfactory evidence of environmental impacts (e.g., staining and odor). Soil descriptions will be recorded in a field log. Boring logs will be presented in the Remedial Investigation Report (RIR).

3.2.2 Soil Sampling and Analysis

Up to three grab soil samples will be collected from each soil boring for laboratory analysis. One sample will be collected from the 0-2-foot bgs interval. A second sample will be collected from the interval exhibiting the greatest degree of contamination (based on the presence of staining, odor, and/or PID readings above background). A third sample will be collected from the first underlying depth interval without evidence of impacts or fill (i.e., native soil). If borings are advanced to a termination depth of 15 feet bgs and no evidence of impacts is identified, samples will be collected from the bottom of the fill layer and the underlying native soil interval. Green spaces are not present and the site is entirely covered with asphalt or concrete pavement and pavers; therefore, surface soil samples will not be collected.

The proposed soil samples are summarized in Table 1. Non-disposable, down-hole drilling equipment and sampling apparatus will be decontaminated between locations with Alconox® and water.

The samples will be collected in laboratory-supplied containers and will be sealed, labeled, and placed in an ice-chilled cooler (to attempt to maintain a temperature of about 4°C) for delivery to a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory. Soil samples will be analyzed using the latest United States Environmental Protection Agency (USEPA) methods as follows:

- Part 375 List and TCL VOCs by USEPA methods 8260C/5035
- Part 375 List and TCL SVOCs by USEPA method 8270D
- Part 375 List PCBs by USEPA method 8082A
- TAL/Part 375 List metals (including cyanide and hexavalent and trivalent chromium) by USEPA Methods 6010C/7471B/9010C/7196A
- Part 375 List pesticides and herbicides by USEPA methods 8081B and 8151A, respectively
- NYSDEC List PFAS by USEPA Method 1633. A list of the PFAS compounds is provided in Table 2.
- 1,4-dioxane by USEPA Method 8270D

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QA/QC procedures to be followed are described in the QAPP in Appendix C.

3.3 Groundwater Investigation

3.3.1 Monitoring Well Installation

Twelve soil borings will be converted to permanent groundwater monitoring wells. Soil from each borehole will be logged continuously from surface grade to the boring termination prior to monitoring well installation. A plan showing the proposed well locations is included as Figure 7.

The proposed monitoring wells will be installed across the observed water table and will be constructed using 2-inch-diameter polyvinyl chloride (PVC) riser pipe with 10-foot-long, 0.01-inch slotted screens, or 10-foot-long, 2-inch-diameter pre-pack well screens. The proposed monitoring wells will be installed such that the well screens straddle the observed groundwater table. The well annulus around the slotted screen in each well will be a minimum of 2 inches (minimum 6-inch-diameter boreholes) and will be backfilled with clean sand to about 2 feet above the top of the screen. A minimum 1-foot-thick bentonite seal will be installed above the sand in each well, and the borehole annuli will be backfilled with non-impacted soil cuttings and/or clean sand.

The final installation depths of permanent groundwater monitoring wells and screen intervals will be based on field observations. In the absence of impacts, the bottoms of the well screens will be set at about five feet below the groundwater table (estimated to not more than 15 feet bgs). If impacts are identified (odors, staining, and/or elevated PID readings) additional monitoring wells will be installed to horizontally and vertically delineate the contamination. If required based on field observations, clustered and/or nested monitoring wells may be installed.

Following installation, the wells will be developed using a surge block across the well screen to agitate and remove fines. The surge block will be moved within the well screen in 2- to 3-foot increments for approximately 2 minutes per increment. After surging, the well will be purged via pumping until the water becomes clear (having turbidity less than 50 Nephelometric Turbidity Units [NTU]). The well will then be allowed to equilibrate for a minimum of one week prior to collecting groundwater samples.

3.3.2 Monitoring Well Survey

The location and elevation of the groundwater monitoring wells (top of casing elevations) will be surveyed. This data will be used with synoptic groundwater well gauging data to prepare a groundwater contour map to evaluate the direction of groundwater flow. Vertical control will be established by surveying relative to the North American Vertical Datum of 1988 (NAVD88) by a New York State-licensed land surveyor. Elevations of the top of monitoring well casings and protective well casings will be surveyed to the nearest 0.01 foot.

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3.3.3 Groundwater Sampling and Analysis

One groundwater sample will be collected from each of the five wells. Prior to sampling, the monitoring wells will be gauged for static water levels and for the presence of NAPL and purged. Purging will consist of pumping, at a minimum, the stabilized drawdown volume plus the pump's tubing volume, and waiting until the physical and chemical parameters (e.g., temperature, dissolved oxygen, oxygen reduction potential, turbidity) stabilize within the ranges specified in the USEPA's Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, dated July 30, 1996, and 4th revision September 19, 2017. Samples will be collected with a low-flow submersible pump and dedicated polyethylene tubing. Development and purge water will be containerized for off-site disposal.

The groundwater samples will be collected in laboratory-supplied containers and will be sealed, labeled, and placed in an ice-chilled cooler (to maintain a temperature of about 4ºC) for delivery to the laboratory. Groundwater samples will be analyzed using the latest USEPA methods as follows:

- TCL VOCs by USEPA Method 8260C
- TCL SVOCs by USEPA Method 8270D
- Pesticides by USEPA Method 8081B
- Herbicides by USEPA Method 8151A
- PCBs by USEPA Method 8082A
- Metals (filtered and unfiltered) by USEPA Method 6010D/6020B/7470A
- Hexavalent/Trivalent Chromium by USEPA Method 7196A
- Total cyanide by SM 4500
- NYSDEC List PFAS by EPA Method 1633
- 1,4-dioxane by EPA Method 8270D

Should free product be observed during monitoring well development or sampling, a sample will be collected and analyzed via fingerprint analysis. QA/QC procedures to be followed are described in the QAPP in Appendix C.

3.4 Soil Vapor Investigation

3.4.1 Soil Vapor Point Installation

Eight temporary soil vapor points will be installed in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006, with updates including the February 2024 update). A plan showing the proposed soil vapor sample locations is included as Figure 7. Soil vapor points will be installed using direct-push technology by advancing a vapor

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probe to about 2 feet above the observed groundwater interface or to the proposed development depth, whichever is shallower. The soil vapor collection points will consist of inert sample tubing (i.e., polyethylene) and the annulus (i.e., the sampling zone) around the installed tubing will be filled with a clean, coarse sand pack followed by a hydrated bentonite seal to surface grade.

3.4.2 Soil Vapor Sampling and Analysis

Samples will be collected in general accordance with the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (October 2006, with updates February 2024). The proposed vapor samples are summarized in Table 1. A plan showing the proposed soil vapor locations is included as Figure 7. Before collecting soil vapor samples, a minimum of three vapor probe volumes (i.e., the volume of the sample implant and tubing) will be purged from each sample point at a rate of less than 0.2 liters per minute using a RAE Systems MultiRAE® meter. Samples will be collected within one day of installing temporary vapor points. Purged soil vapor will be monitored for VOCs with the MultiRAE® during this process.

A helium tracer gas will be used in accordance with NYSDOH protocols to serve as a QA/QC technique to document the integrity of each soil vapor sampling point seal before and after sampling. The tracer gas will be introduced into a container surrounding the vapor point and seal. Helium will be measured from the sampling tube and inside the container. If the sample tubing contains more than 10% of the tracer gas concentration that was introduced into the container, then the seal is considered compromised and should be enhanced or reconstructed to reduce outside air infiltration.

After the integrity of each seal has been confirmed, soil vapor will be collected over a 2-hour sampling period into laboratory-supplied, batch-certified clean 6.0-liter Summa® canisters with calibrated flow controllers. One ambient air sample will be concurrently collected from the breathing zone (about 3 to 5 feet above grade) of an exterior area to provide information regarding background air conditions. The samples will be analyzed for VOCs by USEPA Method TO-15.

A log sheet for each soil vapor sample will be completed to record sample identification, date and time of sample collection, sampling depth, name of the field staff responsible for sampling, sampling methods and equipment, vapor purge volumes, volume of vapor extracted, flow rate, and vacuum levels of canisters before and after sample collection.

3.5 Data Management and Validation

Laboratory analyses of soil, groundwater, and soil vapor samples will be conducted by a NYSDOH ELAP-approved laboratory in accordance with USEPA SW-846 methods and NYSDEC Analytical Services Protocol (ASP) Category B deliverable format. Environmental data will be reported electronically using the database software application EQuIS as part of NYSDEC's Environmental Information Management System (EIMS).

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Table 1 summarizes the proposed samples and laboratory analyses. QA/QC procedures required by the NYSDEC ASP and SW-846 methods, including initial and continuing instrument calibrations, standard compound spikes, surrogate compound spikes, and analysis of other samples (blanks, laboratory control samples, and matrix spikes/matrix spike duplicates), will be followed. The laboratory will provide sample bottles, which will be pre-cleaned and preserved in accordance with the SW-846 methods. Where there are differences in the SW-846 and NYSDEC ASP requirements, the NYSDEC ASP shall take precedence.

Data validation will be performed in accordance with the USEPA validation guidelines for organic and inorganic data review. Validation will include the following:

- Verification of QC sample results (both qualitative and quantitative).
- Verification of sample results (both positive hits and non-detects).
- Recalculation of 10 percent of all investigative sample results.
- Preparation of Data Usability Summary Reports (DUSR).

The DUSRs will be prepared and reviewed by the Program Quality Assurance Monitor (PQAM). The DUSRs will present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody (COC) procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method. A detailed assessment of each sample delivery group (SDG) will follow. Additional details on the DUSRs are provided in the QAPP in Appendix C.

3.6 Management of Investigation-Derived Waste

Soil cuttings will be returned to the borehole unless:

- NAPL or grossly contaminated soil is present in the cuttings;
- Backfilling the borehole with cuttings will create a significant path for vertical movement of contaminants. Soil additives (bentonite) may be added to the cuttings to reduce permeability; or
- The soil cannot fit into the borehole.

Boreholes requiring disposal of drill cuttings will be filled with hydrated bentonite chips or clean sand and capped with asphalt or concrete. Excess investigation-derived waste (IDW), including soil cuttings, purged groundwater, and decontamination fluids, will be containerized in properly labeled and sealed United Nations/Department of Transportation (UN/DOT)-approved 55-gallon drums and temporarily staged for future waste characterization and off-site disposal at a facility permitted to accept the waste. The drums will be staged in an area on-site, pending receipt of laboratory data and off-site disposal to an appropriate facility. IDW will be removed from the site

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within one month of completing the investigation. The site will be secured during and after investigation to prevent public access to the site.

3.7 Air Monitoring

Air monitoring will be conducted for site workers and the community pursuant to the CAMP provided as Appendix D. Air monitoring results will be recorded in the field book during the investigation activities, downloaded from field instruments and summarized in daily reports.

3.7.1 Personnel Air Monitoring

Langan will conduct air monitoring of the breathing zone periodically during drilling and sampling activities to evaluate health and safety protection for the field personnel. Initially, ambient air monitoring will be performed within the work area. Langan will monitor VOCs with a PID (MultiRAE 3000 or similar) in accordance with the HASP (Appendix B). If air monitoring during intrusive operations identifies the presence of VOCs, on-site personnel will follow the guidelines outlined in the HASP regarding action levels, permissible exposure, engineering controls, and personal protective equipment. If the VOC action level is exceeded, work will cease, and the work location will be evacuated. Monitoring will be continued until the levels drop to safe limits. At that time, work can resume with continued monitoring. If high levels persist, field activities will be halted, and the work relocated to another area. If dust emissions are observed, work will stop, and dust suppression measures will be used.

3.7.2 Community Air Monitoring Plan

Community air monitoring will be performed in compliance with the NYSDOH Generic CAMP during any intrusive work. The CAMP is included in Appendix D.

CAMP will consist of continuous monitoring for VOCs and dust emissions during ground-intrusive activities (i.e., soil boring and monitoring well installation). Two units will be deployed in the upwind and downwind directions. The locations of these CAMP stations will be determined each day in the field based on the prevailing wind direction. Upwind concentrations will be measured at the start of each workday, and periodically thereafter, to establish background concentrations. VOCs and dust emissions will be monitored at the downwind perimeter of the work zone, which will be established at a point on the site where the general public or site employees may be present. VOC monitoring will be conducted with a PID equipped with a 10.6 eV lamp. VOC community air monitoring requirements will be conducted until it is determined that the site is not a source of organic vapors and will not be terminated unless the NYSDEC and NYSDOH approve discontinuation. Dust emissions will be monitored using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM10) and capable of averaging a period of 15 minutes (or less) for comparison to the airborne particulate action level (e.g., DustTrak). If dust emissions are observed, work will stop, and dust suppression measures will be used. The results will be presented in the daily reports (see DER-10 for details).

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Special Requirements, as included in Appendix D, will be adhered to during ground-intrusive work within 20 feet of potentially exposed populations or occupied structures. Community air monitoring requirements will be conducted until it is determined that the site is not a source of organic vapors.

3.8 Green Remediation Standards

Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per the NYSDEC DER-31 Green Remediation Policy (DER-31). DER-31 requires the following green remediation/sustainability concepts be considered and/or implemented, to the extent feasible, during investigations:

- Increase energy efficiency/minimize total energy use and direct and indirect CO2/greenhouse gas (GHG) emissions to the atmosphere
- Reduce emissions of air pollutants
- Minimize habitat disturbance and create or enhance habitat or usable land
- Conserve natural resources such as soil and water; promote the sequestration of carbon through reforestation or afforestation
- Minimize fresh water consumption and maximize water reuse during daily operations and treatment processes
- Prevent long-term erosion, surface runoff, and off-site water quality impacts Prevent unintended soil compaction
- Minimize waste or implement beneficial use of materials that would otherwise be considered a waste
- Minimize equipment and truck idling and use sustainably produced biofuels to reduce discharges of pollutants and GHGs to the atmosphere
- Utilize clean diesel (new or retrofitted) equipment to reduce emissions to the atmosphere
- Minimize truck travel for disposal to save energy, reduce emissions, reduce localized noise, vibration, and wear and tear on roads
- Minimize use of heavy equipment to save energy and reduce emissions

During implementation of this RIWP, the following elements will be implemented, to the extent feasible, to reduce greenhouse gas and other emissions:

- Use of Ultra Low Sulfur Diesel in vehicles and machinery by drilling contractor
- Use of diesel exhaust purifier scrubbers on machinery (drill rigs) by drilling contractor
- Minimization of idling of all vehicles in accordance with 6 NYCRR Part 217 Motor Vehicle

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Emissions, Subpart 217-3 Idling Prohibition for Heavy Duty Vehicles

- Reduction of materials consumption and off-site transport by reuse of non-impacted drilling spoils as backfill within the boring of origin and containerization of drilling spoils exhibiting visual, olfactory, and instrumental signs of contamination

3.9 Environmental Footprint Analysis

To evaluate the investigation with respect to GSR principles an environmental footprint analysis was conducted using SiteWise™. The results of the environmental footprint analysis are provided in Appendix E and detailed below.

The following metrics were quantified:

- Greenhouse Gas Emissions
- Total Energy Used
- Water Consumption
- Electrical Usage
- Onsite Nitrogen Oxides (NOx) Emissions
- Onsite Sulphur Oxides (SOx) Emissions
- Total NOx Emissions
- Total SOx Emissions
- Total PM10 Emissions

Using the above identified information, the SiteWise™ model estimated the following emissions and total energy usage:

Emissions and Energy Usage	Quantity (based on assumptions)
GHG Emissions (metric ton)	25
Total Energy Used (million british thermal unit [MMBTU])	370
Water Consumption (gallons)	100
Electricity Usage (megawatt hours [MWH])	0.0
Onsite NOx Emissions (metric ton)	0.0021
Onsite SOx Emissions (metric ton)	0.00019

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Emissions and Energy Usage	Quantity (based on assumptions)
Total NOx Emissions (metric ton)	0.12
Total SOx Emissions (metric ton)	0.086
Total PM10 Emissions (metric ton)	0.0097

A climate screening assessment was also conducted for the investigation and is provided in Appendix F.

3.10 Qualitative Human Health and Fish/Wildlife Exposure Assessment

A Qualitative Human Health Exposure Assessment and Fish and Wildlife Resources Impact Analysis (FWRIA) will be conducted in accordance with Appendix 3B and Appendix 3C of the NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation. These assessments will be submitted as part of the RIR.

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4.0 REPORTING

4.1 Remedial Investigation Report

Following completion of the RI and receipt of analytical data, an RIR will be prepared. The report will include:

- A summary of the site history and previous investigations
- A description of on- and off-site conditions
- Sampling methodology and field observations
- An evaluation of the results and findings
- Conclusions and recommendations for any further assessment (if warranted), and remedial action objectives

The report will summarize the nature and extent of contamination at each area of concern and identify unacceptable exposure pathways (as determined through a Qualitative Human Health Exposure Assessment). DUSRs will be included in the RIR, and electronic data deliverables will be submitted to the NYSDEC EQuIS database prior to submission of the draft RIR.

The RIR will include soil boring, monitoring well and soil vapor point construction logs, sampling logs, tabulated analytical results, figures, and laboratory data packages. The tabulated analytical results will include sample location, media sampled, sample depth, field/laboratory identification numbers, analytical results and the applicable Standards, Criteria, and Guidance (SCG) pertaining to the site and contaminants of concern for comparison. The report will include scaled figures showing the locations of soil borings, monitoring wells, and soil vapor points, sample concentrations above SCGs for each media, groundwater elevation contours and flow direction, and, if appropriate, groundwater contaminant concentration contours.

4.2 Daily Reports

Daily reports will be submitted to NYSDEC and NYSDOH Project Managers by the end of each day following the reporting period and will include:

- An update of progress made during the reporting day
- Locations of work and quantities of material imported and exported from the site
- References to alpha-numeric map for site activities
- A summary of any and all complaints with relevant details (names, phone numbers)
- A summary of CAMP findings, including any exceedances
- An explanation of notable site conditions

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Daily reports are not intended to be the mode of communication for notification to the NYSDEC of emergencies (e.g., accident, spill), requests for changes to the RIWP or other sensitive or time critical information. However, such conditions must also be included in the daily reports. Emergency conditions and changes to the RIWP will be addressed directly to NYSDEC Project Manager via personal communication.

Daily Reports will include a description of daily activities keyed to an alpha-numeric map for the site that identifies work areas. These reports will include a summary of CAMP results, odor and dust problems and corrective actions, and all complaints received from the public.

The NYSDEC-assigned project number will appear on all reports.

4.3 Monthly Reports

After approval of this RIWP, monthly reports will be submitted to NYSDEC and NYSDOH Project Managers by the 10th of each month following the reporting period and will include:

- Activities relative to the site during the previous reporting period and those anticipated for the next reporting period, including a quantitative presentation of work performed (i.e., tons of material exported and imported, etc.)
- Description of approved activity modifications, including changes of work scope and/or schedule
- Sampling results received following internal data review and validation, as applicable
- An update of the remedial schedule including the percentage of project completion, unresolved delays encountered or anticipated that may affect the future schedule, and efforts made to mitigate such delays

4.4 Other Reporting

Photographs will be taken of all investigation activities and submitted to NYSDEC in digital format. Photos will illustrate remedial program elements and will be of acceptable quality. Representative photos will be provided of each contaminant source, source area and site structures during site investigation. Photos will be included in the daily reports as needed and a comprehensive collection of photos will be included in the Remedial Investigation Report.

Job-site recordkeeping for all remedial work will be appropriately documented. These records will be maintained on-site at all times during the project and be available for inspection by NYSDEC and NYSDOH staff.

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5.0 SCHEDULE

The table below presents an anticipated schedule for the proposed RI and reporting following the approval of the RIWP. A chart showing an overall project schedule is included in Appendix G. If the schedules changes, it will be updated and re-submitted to the NYSDEC.

Milestone	Weeks from NYSDEC Approval of RIWP	Estimated Duration (weeks)
RI Mobilization	2	1
RI Field Investigation	4	3
Laboratory Analysis	6	4
Remedial Investigation Report Preparation and Submission to the NYSDEC	10	6

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TABLES

Table 1
Proposed Sample Summary
Remedial Investigation Work Plan

1480 Sheridan Boulevard
Bronx New York
Langan Project No. 170970901

No.	Sample Name	Type	Boring	Depth Interval	Rationale	Depth[1]	Analyses
SOIL							
1	RISB01_0-2	Grab	RISB01	0-2	Investigate AOC 1	Upper 2 feet of fill	Part 375/TCL VOCs, SVOCs, PCBs, pesticides, herbicides, Part 375/TAL metals including hexavalent and trivalent chromium, total cyanide, 1,4-dioxane and PFAS
2	RISB01_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
3	RISB01_X-X			X-X		Clean interval below impacts	
4	RISB02_0-2	Grab	RISB02	0-2		Upper 2 feet of fill	
5	RISB02_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
6	RISB02_X-X			X-X		Clean interval below impacts	
7	RISB03_0-2	Grab	RISB03	0-2		Upper 2 feet of fill	
8	RISB03_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
9	RISB03_X-X			X-X		Clean interval below impacts	
10	RISB04_0-2	Grab	RISB04	0-2		Upper 2 feet of fill	
11	RISB04_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
12	RISB04_X-X			X-X		Clean interval below impacts	
13	RISB05_0-2	Grab	RISB05	0-2	Investigate AOC 1 and 3	Upper 2 feet of fill	
14	RISB05_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
15	RISB05_X-X			X-X		Clean interval below impacts	
16	RISB06_0-2	Grab	RISB06	0-2		Upper 2 feet of fill	
17	RISB06_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
18	RISB06_X-X			X-X		Clean interval below impacts	
19	RISB07_0-2	Grab	RISB07	0-2		Upper 2 feet of fill	
20	RISB07_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
21	RISB07_X-X			X-X		Clean interval below impacts	
22	RISB08_0-2	Grab	RISB08	0-2	Investigate AOC 1	Upper 2 feet of fill	
23	RISB08_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
24	RISB08_X-X			X-X		Clean interval below impacts	
25	RISB09_0-2	Grab	RISB09	0-2		Upper 2 feet of fill	
26	RISB09_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
27	RISB09_X-X			X-X		Clean interval below impacts	
28	RISB10_0-2	Grab	RISB10	0-2		Upper 2 feet of fill	
29	RISB10_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
30	RISB10_X-X			X-X		Clean interval below impacts	
31	RISB11_0-2	Grab	RISB11	0-2	Investigate AOC 1 and 4	Upper 2 feet of fill	
32	RISB11_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
33	RISB11_X-X			X-X		Clean interval below impacts	
34	RISB12_0-2	Grab	RISB12	0-2		Upper 2 feet of fill	
35	RISB12_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
36	RISB12_X-X			X-X		Clean interval below impacts	
37	RISB13_0-2	Grab	RISB13	0-2		Upper 2 feet of fill	
38	RISB13_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
39	RISB13_X-X			X-X		Clean interval below impacts	
40	RISB14_0-2	Grab	RISB14	0-2		Upper 2 feet of fill	
41	RISB14_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
42	RISB14_X-X			X-X		Clean interval below impacts	
43	RISB15_0-2	Grab	RISB15	0-2	Investigate AOC 1	Upper 2 feet of fill	
44	RISB15_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
45	RISB15_X-X			X-X		Clean interval below impacts	
46	RISB16_0-2	Grab	RISB16	0-2		Upper 2 feet of fill	
47	RISB16_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
48	RISB16_X-X			X-X		Clean interval below impacts	
49	RISB17_0-2	Grab	RISB17	0-2		Upper 2 feet of fill	
50	RISB17_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
51	RISB17_X-X			X-X		Clean interval below impacts	
52	RISB18_0-2	Grab	RISB18	0-2		Upper 2 feet of fill	
53	RISB18_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
54	RISB18_X-X			X-X		Clean interval below impacts	
55	RISB19_0-2	Grab	RISB19	0-2		Upper 2 feet of fill	
56	RISB19_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
57	RISB19_X-X			X-X		Clean interval below impacts	
58	RISB20_0-2	Grab	RISB20	0-2		Upper 2 feet of fill	
59	RISB20_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
60	RISB20_X-X			X-X		Clean interval below impacts	
61	RISB21_0-2	Grab	RISB21	0-2		Upper 2 feet of fill	
62	RISB21_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
63	RISB21_X-X			X-X		Clean interval below impacts	
64	RISB22_0-2	Grab	RISB22	0-2		Upper 2 feet of fill	
65	RISB22_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
66	RISB22_X-X			X-X		Clean interval below impacts	

Table 1
Proposed Sample Summary
Remedial Investigation Work Plan

1480 Sheridan Boulevard
Bronx New York
Langan Project No. 170970901

No.	Sample Name	Type	Boring	Depth Interval	Rationale	Depth[1]	Analyses
SOIL CONTINUED							
67	RISB23_0-2	Grab	RISB23	0-2	Investigate AOC 1	Upper 2 feet of fill	Part 375/TCL VOCs, SVOCs, PCBs, pesticides, herbicides, Part 375/TAL metals including hexavalent and trivalent chromium, total cyanide, 1,4-dioxane and PFAS
68	RISB23_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
69	RISB23_X-X			X-X		Clean interval below impacts	
70	RISB24_0-2	Grab	RISB24	0-2		Upper 2 feet of fill	
71	RISB24_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
72	RISB24_X-X			X-X		Clean interval below impacts	
73	RISB25_0-2	Grab	RISB25	0-2	Investigate AOC 1 and 2	Upper 2 feet of fill	
74	RISB25_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
75	RISB25_X-X			X-X		Clean interval below impacts	
76	RISB26_0-2	Grab	RISB26	0-2		Upper 2 feet of fill	
77	RISB26_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
78	RISB26_X-X			X-X		Clean interval below impacts	
79	RISB27_0-2	Grab	RISB27	0-2		Upper 2 feet of fill	
80	RISB27_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
81	RISB27_X-X			X-X		Clean interval below impacts	
82	RISB28_0-2	Grab	RISB28	0-2		Upper 2 feet of fill	
83	RISB28_X-X			X-X		Greatest degree of impacts or bottom of the non-native fill layer	
84	RISB28_X-X			X-X		Clean interval below impacts	
SOIL QA/QC							
1	SODUP01_date	Duplicate	TBD	TBD	QA/QC	Duplicate	Part 375/TCL VOCs, SVOCs, PCBs, pesticides, herbicides, Part 375/TAL metals including hexavalent and trivalent chromium, total cyanide, 1,4-dioxane and PFAS
2	SODUP02_date		TBD	TBD			
3	SODUP03_date		TBD	TBD			
4	SODUP04_date		TBD	TBD			
5	SODUP05_date		TBD	TBD			
6	RISBXX_X-X	MS/MSD	RISBXX	X-X		Matrix Spike/Matrix Spike Duplicate	
7	RISBXX_X-X		RISBXX	X-X			
8	RISBXX_X-X		RISBXX	X-X			
9	RISBXX_X-X		RISBXX	X-X			
10	RISBXX_X-X		RISBXX	X-X			
11	SOFB01_date	Field Blank	NA	NA		Field Blank	
12	SOFB02_date						
13	SOFB03_date						
14	SOFB04_date						
15	SOFB05_date						
16	SOFB_PFAS_date	PFAS Field Blank				PFAS Field Blank	PFAS
17	SOFB_PFAS_date						
18	SOFB_PFAS_date						
19	SOFB_PFAS_date						
20	SOFB_PFAS_date						
21	TB01_date	Trip Blank				Trip Blank	Part 375 VOCs
22	TB02_date						
23	TB03_date						

Table 1
Proposed Sample Summary
Remedial Investigation Work Plan

1480 Sheridan Boulevard
Bronx New York
Langan Project No. 170970901

No.	Sample Name	Type	Boring	Depth Interval	Rationale	Depth[1]	Analyses
GROUNDWATER							
1	RIMW01_date	Grab	RIMW01	NA	Investigate AOC 1	Midpoint of screened interval	TCL VOCs, SVOCs, PCBs, herbicides, pesticides, TAL metals (total and dissolved), trivalent and hexavalent chromium, total cyanide, PFAS, and 1,4-dioxane
2	RIMW04_date		RIMW04				
3	RIMW06_date		RIMW06		Investigate AOC 3		
4	RIMW09_date		RIMW09		Investigate AOC 1		
5	RIMW14_date		RIMW14		Investigate AOC 4		
6	RIMW15_date		RIMW15		Investigate AOC 1		
7	RIMW19_date		RIMW19				
8	RIMW20_date		RIMW20				
9	RIMW23_date		RIMW23				
10	RIMW24_date		RIMW24				
11	RIMW25_date		RIMW25		Investigate AOC 2		
12	RIMW27_date		RIMW27				
GROUNDWATER QA/QC							
1	RIGWDUP01_date	Duplicate	MWXX	NA	QA/QC	NA	TCL VOCs, SVOCs, PCBs, herbicides, pesticides, TAL metals (total and dissolved), trivalent and hexavalent chromium, total cyanide, PFAS, and 1,4-dioxane
2	RIMWXX_date	MS/MSD					
3	RIGWFB101_date	Field Blank	NA				TCL VOCs, SVOCs, PCBs, herbicides, pesticides, TAL metals (total and dissolved), trivalent and hexavalent chromium, total cyanide, and 1,4-dioxane
4	RIGWFB_PFAS_date	PFAS Field Blank					PFAS
5	GWTB101_date	Trip Blank					TCL VOCs
6	GWTB102_date						
Air							
1	RISV01_date	Grab	RISV01	NA	Investigate AOC 1	Soil vapor directly beneath cover	TO-15 VOCs
2	RISV04_date		RISV04				
3	RISV06_date		RISV06		Investigate AOC 3		
4	RISV14_date		RISV14		Investigate AOC 4		
5	RISV15_date		RISV15		Investigate AOC 1		
6	RISV23_date		RISV23				
7	RISV24_date		RISV24				
8	RISV25_date		RISV25		Investigate AOC 2		
9	RIIA01_date		RIIA01		Ambient Air	Breathing height	

Areas of Concern (AOCs):
AOC 1 - Sitewide Historical Use as a Coal and Lumber Yard
AOC 2 - Historical Site Use as a Concrete Manufacturer and Auto Parts Warehouse and Wrecking Yard
AOC 3 - Known Petroleum Impacts in Soil, Groundwater, and Soil Vapor
AOC 4 - Suspected Underground Storage Tank

Notes and abbreviations:
1. Soil sample depth intervals will be determined in the field.
2. Soil samples to be analyzed for New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Part 375-list compounds.
3. TBD = to be determined (in the field)
4. VOC = volatile organic compound
5. SVOC = semivolatile organic compound
6. PCB = polychlorinated biphenyl
7. TCL = Target Compound List
8. TAL = Target Analyte List
9. QA/QC = quality assurance/quality control
10. NA = not applicable
11. NYSDEC = New York State Department of Environmental Conservation
12. PFAS = per- and polyfluoroalkyl substances as limited to the list of compounds designated by NYSDEC

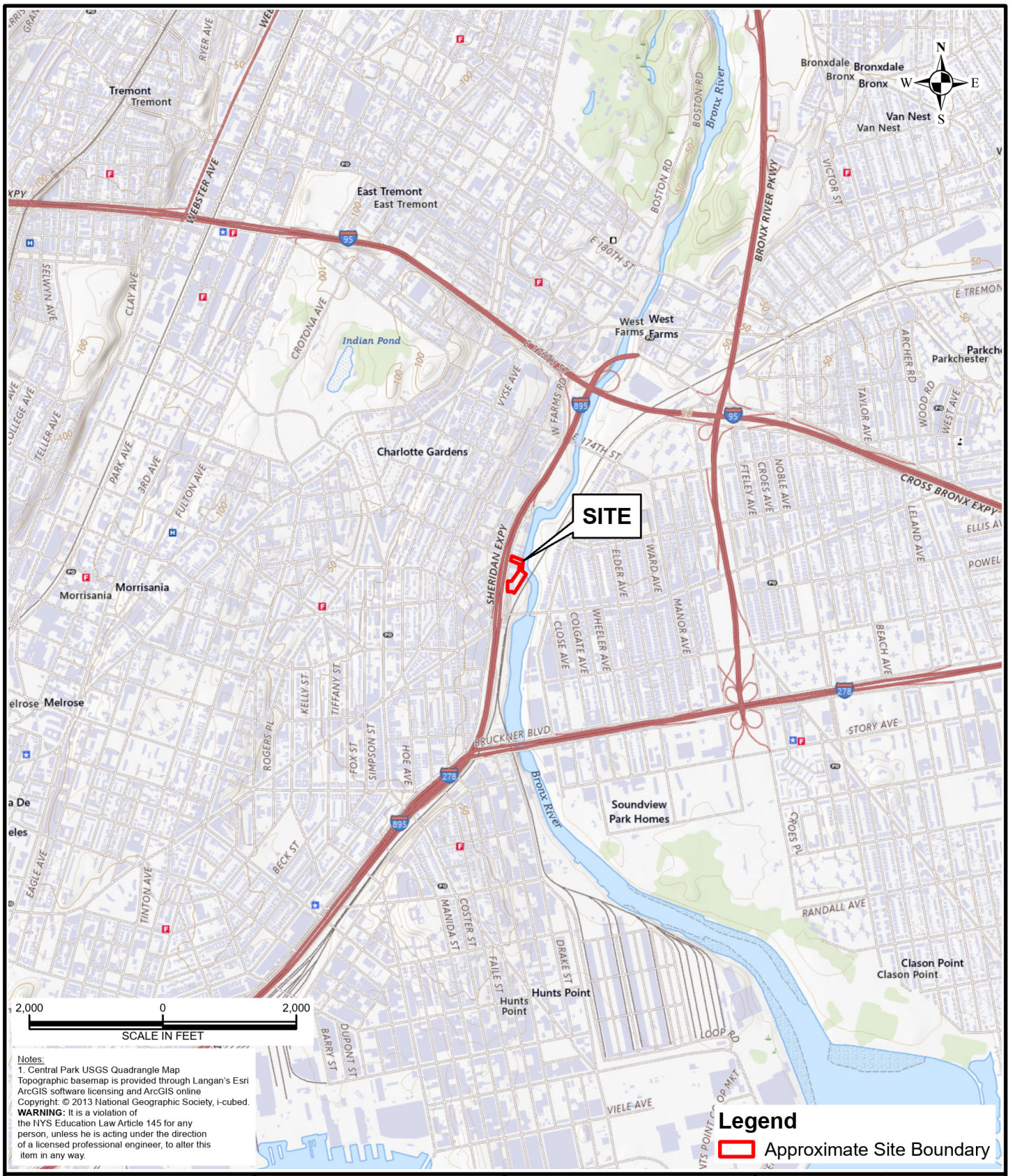
Table 2
List of Per- and Polyfluoroalkyl Substances
Remedial Investigation Work Plan

1480 Sheridan Boulevard
Bronx, New York
Langan Project No. 170824801

Compound Name	Analytical Method
Perfluoroalkyl sulfonic acids	
Perfluorobutanesulfonic acid (PFBS)	
Perfluoropentanesulfonic acid (PFPeS)	
Perfluorohexanesulfonic acid (PFHxS)	
Perfluoroheptanesulfonic acid (PFHpS)	
Perfluorooctanesulfonic acid (PFOS)	
Perfluorononanesulfonic acid (PFNS)	
Perfluorodecanesulfonic acid (PFDS)	
Perfluorododecanesulfonic acid (PFDoS)	
Perfluoroalkyl carboxylic acids	
Perfluorobutanoic acid (PFBA)	
Perfluoropentanoic acid (PFPeA)	
Perfluorohexanoic acid (PFHxA)	
Perfluoroheptanoic acid (PFHpA)	
Perfluorooctanoic acid (PFOA)	
Perfluorononanoic acid (PFNA)	
Perfluorodecanoic acid (PFDA)	
Perfluoroundecanoic acid (PFUnA)	
Perfluorododecanoic acid (PFDoA)	
Perfluorotridecanoic acid (PFTrDA)	
Perfluorotetradecanoic acid (PFTeDA)	
Per- and Polyfluoroether carboxylic acids	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	
Perfluoro-3-methoxypropanoic acid (PFMPA)	USEPA Method 1633
Perfluoro-4-methoxybutanoic acid (PFMBA)	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	
Fluorotelomer sulfonic acids	
4:2 Fluorotelomer sulfonic acid (4:2-FTS)	
6:2 Fluorotelomer sulfonic acid (6:2-FTS)	
8:2 Fluorotelomer sulfonic acid (8:2-FTS)	
Fluorotelomer carboxylic acids	
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	
5:3 Fluorotelomer carboxylic acid (5:3 FTCA)	
7:3 Fluorotelomer carboxylic acid (7:3 FTCA)	
Perfluorooctane sulfonamides	
Perfluorooctane sulfonamide (PFOSA)	
N-methylperfluorooctane sulfonamide (NMeFOSA)	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	
Perfluorooctane sulfonamidoacetic acids	
N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	
N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	
Perfluorooctane sulfonamide ethanols	
N-methylperfluorooctane sulfonamidoethanol (MeFOSE)	
N-ethylperfluorooctane sulfonamidoethanol (EtFOSE)	
Ether sulfonic acids	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) (9Cl-PF3ONS)	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) (11Cl-PF3OUdS)	
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	

Notes:
1. PFAS - per- and polyfluoroalkyl substances

FIGURES



Notes:
1. Central Park USGS Quadrangle Map Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online Copyright: © 2013 National Geographic Society, i-cubed.
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Project	**1480 SHERIDAN BOULEVARD** BLOCK No. 3017, LOT No. 29 BRONX NEW YORK
Figure Title	**SITE LOCATION MAP**
Project No.	170970901
Date	7/6/2026
Scale	1" = 2,000 feet
Drawn By	GS
Figure	1

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Legend

- Approximate Site Boundary
- 3017 Tax Block
- 29 Tax Parcel

Notes:
1. Aerial imagery provided through Langan's subscription to NearMap.com, flown 7/3/2025.
2. Parcel data is provided by the New York City Department of City Planning.
3. Block 3017, Lot 29 is being subdivided into two lots, Lots 29 and 30. The Brownfield Cleanup Program (BCP) site will be future Lot 29.

WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless acting under the direction of a licensed professional engineer, land surveyor or geologist, to alter this item in any way.

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Project
1480 SHERIDAN BOULEVARD
BLOCK No. 3017, LOT No. 29
BRONX NEW YORK

Figure Title
SITE PLAN

Project No. 170970901
Date 7/6/2026
Scale 1"=100'
Drawn By GS

Figure No. 2

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BLOCK: 3017 LOT: 60
OWNER: SHERIDAN BLVD APARTMENTS LLC
ADDRESS: 1428 EDGEWATER ROAD

BLOCK: 3013 LOT: 1
OWNER: PALM TREE REALTY CORP
ADDRESS: 1021 BOONE AVENUE

BLOCK: 3007 LOT: 8
OWNER: NYC DEPARTMENT OF EDUCATION
ADDRESS: 1434 LONGFELLOW AVENUE

BLOCK: 3017 LOT: 30
OWNER: 1480 SHERIDAN OWNER LLC
ADDRESS: 1480 SHERIDAN BOULEVARD

BLOCK: 3012 LOT: 100
OWNER: NYC DEPARTMENT OF PARKS AND RECREATION
ADDRESS: 1340 WEST FARMS ROAD

BLOCK: 3017 LOT: 28
OWNER: ZARDOYA MATEO REALTY CP
ADDRESS: 1476 SHERIDAN EXPRESSWAY

BLOCK: 3769 LOT: 1
OWNER: NYC DEPARTMENT OF PARKS AND RECREATION
ADDRESS: 1374 EAST 172 STREET

BLOCK: 3769 LOT: 12
OWNER: CITY OF NEW YORK
ADDRESS: EAST 172 STREET

BLOCK: 3769 LOT: 49
OWNER: NYC DEPARTMENT OF PARKS AND RECREATION
ADDRESS: 1235 BRONX RIVER AVENUE

BLOCK: 3017 LOT: 6
OWNER: CITY OF NEW YORK
ADDRESS: WESTCHESTER AVENUE

Legend

- Approximate Site Boundary
- 29 Tax Parcel
- 1,000-foot Radius

Land Use

- One & Two Family Buildings
- Multi-Family Walk-Up Buildings
- Multi-Family Elevator Buildings
- Mixed Residential & Commercial Buildings
- Commercial & Office Buildings
- Industrial & Manufacturing
- Transportation & Utility
- Public Facilities & Institutions
- Open Space & Outdoor Recreation
- Parking Facilities
- Vacant Land
- Other/No Data

Notes:
1. Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online.
2. Land use and parcel data is provided by the New York City Department of City Planning.
3. Block 3017, Lot 29 is being subdivided into two lots, Lots 29 and 30. The Brownfield Cleanup Program (BCP) site will be future Lot 29.

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Project
1480 SHERIDAN BOULEVARD
BLOCK No. 3017, LOT No. 29
BRONX NEW YORK

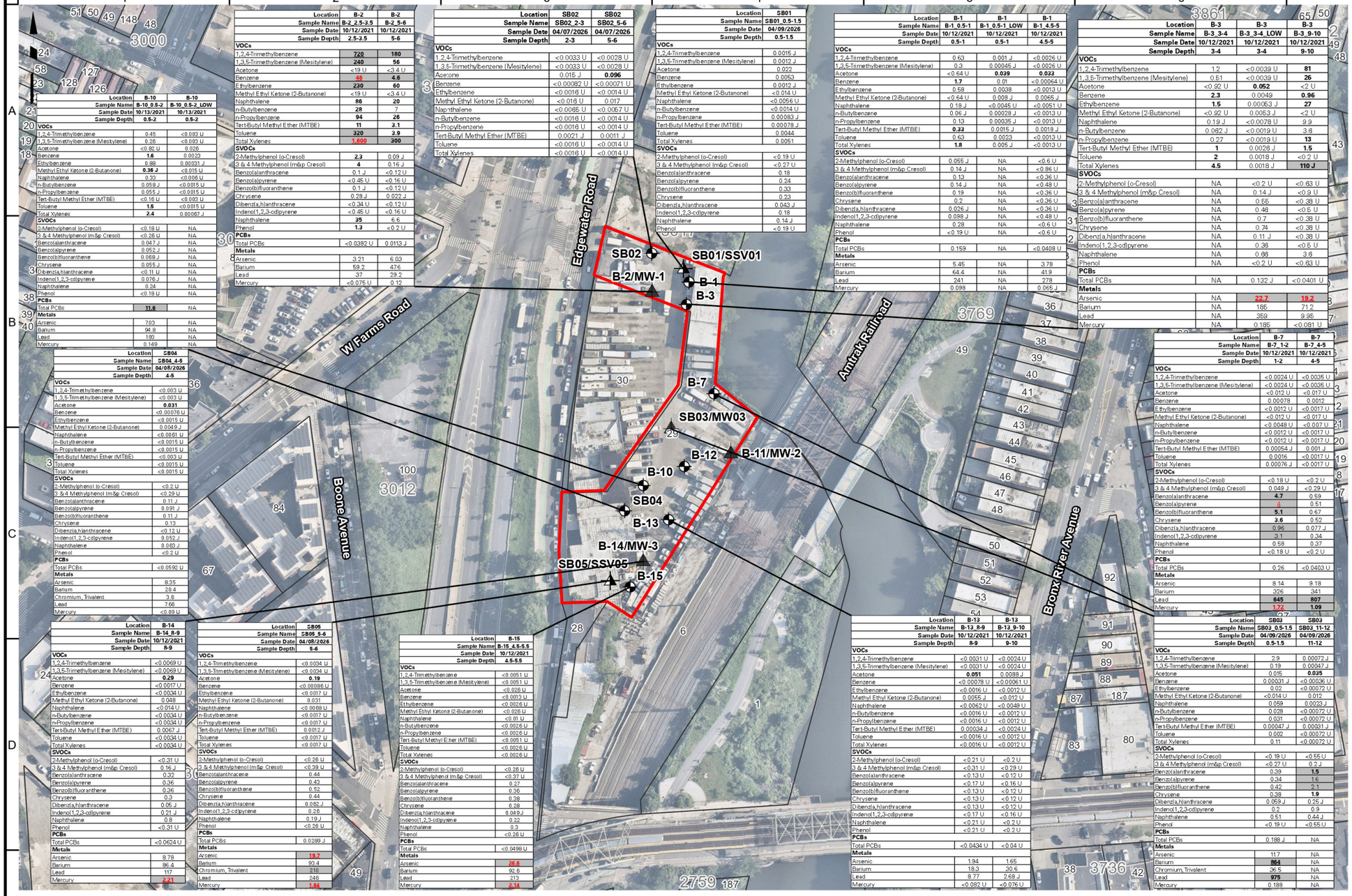
Figure Title
ADJACENT PROPERTY AND SURROUNDING LAND USE MAP

Project No.	170970901
Date	7/6/2026
Scale	1"=350'
Drawn By	GS

Figure No. 3

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Location	B-10	B-10
Sample Name	B-10_0.5-2	B-10_0.5-2_LOW
Sample Date	10/13/2021	10/13/2021
Sample Depth	0.5-2	0.5-2
VOCs		
1,2,4-Trimethylbenzene	0.45	<0.003 U
1,3,5-Trimethylbenzene (Mesitylene)	0.26	<0.003 U
Acetone	<0.82 U	0.026
Benzene	**1.6**	0.0023
Ethylbenzene	0.88	0.00031 J
Methyl Ethyl Ketone (2-Butanone)	**0.36 J**	<0.015 U
Naphthalene	0.33	<0.006 U
n-Butylbenzene	0.058 J	<0.0015 U
n-Propylbenzene	0.055 J	<0.0015 U
Tert-Butyl Methyl Ether (MTBE)	<0.16 U	<0.003 U
Toluene	**1.5**	<0.0015 U
Total Xylenes	**2.4**	0.00067 J
SVOCs		
2-Methylphenol (o-Cresol)	<0.18 U	NA
3 & 4 Methylphenol (m&p Cresol)	<0.26 U	NA
Benzo(a)anthracene	0.047 J	NA
Benzo(a)pyrene	0.052 J	NA
Benzo(b)fluoranthene	0.068 J	NA
Chrysene	0.055 J	NA
Dibenz(a,h)anthracene	<0.11 U	NA
Indeno(1,2,3-cd)pyrene	0.076 J	NA
Naphthalene	0.24	NA
Phenol	<0.19 U	NA
PCBs		
Total PCBs	**11.6**	NA
Metals		
Arsenic	7.03	NA
Barium	94.8	NA
Lead	193	NA
Mercury	0.149	NA

Location	B-2	B-2
Sample Name	B-2_2.5-3.5	B-2_5-6
Sample Date	10/12/2021	10/12/2021
Sample Depth	2.5-3.5	5-6
VOCs		
1,2,4-Trimethylbenzene	**720**	**180**
1,3,5-Trimethylbenzene (Mesitylene)	**240**	**56**
Acetone	<19 U	<3.4 U
Benzene	**38**	**4.6**
Ethylbenzene	**230**	**60**
Methyl Ethyl Ketone (2-Butanone)	<19 U	<3.4 U
Naphthalene	**86**	**20**
n-Butylbenzene	**28**	7
n-Propylbenzene	**94**	**26**
Tert-Butyl Methyl Ether (MTBE)	**11**	**2.1**
Toluene	**320**	**3.9**
Total Xylenes	**1,600**	**300**
SVOCs		
2-Methylphenol (o-Cresol)	**2.3**	0.09 J
3 & 4 Methylphenol (m&p Cresol)	**4**	0.16 J
Benzo(a)anthracene	0.1 J	<0.12 U
Benzo(a)pyrene	<0.45 U	<0.16 U
Benzo(b)fluoranthene	0.1 J	<0.12 U
Chrysene	0.28 J	0.022 J
Dibenz(a,h)anthracene	<0.34 U	<0.12 U
Indeno(1,2,3-cd)pyrene	<0.45 U	<0.16 U
Naphthalene	**35**	6.6
Phenol	**1.3**	<0.2 U
PCBs		
Total PCBs	<0.0382 U	0.0113 J
Metals		
Arsenic	3.21	6.03
Barium	59.2	476
Lead	37	29.2
Mercury	<0.075 U	0.12

Location	SB02	SB02
Sample Name	SB02_2-3	SB02_5-6
Sample Date	04/07/2026	04/07/2026
Sample Depth	2-3	5-6
VOCs		
1,2,4-Trimethylbenzene	<0.0033 U	<0.0028 U
1,3,5-Trimethylbenzene (Mesitylene)	<0.0033 U	<0.0028 U
Acetone	0.015 J	**0.096**
Benzene	<0.00082 U	<0.00071 U
Ethylbenzene	<0.0016 U	<0.0014 U
Methyl Ethyl Ketone (2-Butanone)	<0.016 U	0.017
Naphthalene	<0.0085 U	<0.0067 U
n-Butylbenzene	<0.0016 U	<0.0014 U
n-Propylbenzene	<0.0016 U	<0.0014 U
Tert-Butyl Methyl Ether (MTBE)	0.0021 J	0.0011 J
Toluene	<0.0016 U	<0.0014 U
Total Xylenes	<0.0016 U	<0.0014 U

Location	SB01
Sample Name	SB01_0.5-1.5
Sample Date	04/09/2026
Sample Depth	0.5-1.5
VOCs	
1,2,4-Trimethylbenzene	0.0015 J
1,3,5-Trimethylbenzene (Mesitylene)	0.0012 J
Acetone	0.022
Benzene	0.0053
Ethylbenzene	0.0012 J
Methyl Ethyl Ketone (2-Butanone)	<0.014 U
Naphthalene	<0.0056 U
n-Butylbenzene	<0.0014 U
n-Propylbenzene	0.00083 J
Tert-Butyl Methyl Ether (MTBE)	0.00078 J
Toluene	0.0044
Total Xylenes	0.0051
SVOCs	
2-Methylphenol (o-Cresol)	<0.19 U
3 & 4 Methylphenol (m&p Cresol)	<0.27 U
Benzo(a)anthracene	0.18
Benzo(a)pyrene	0.24
Benzo(b)fluoranthene	0.33
Chrysene	0.23
Dibenz(a,h)anthracene	0.043 J
Indeno(1,2,3-cd)pyrene	0.18
Naphthalene	0.14 J
Phenol	<0.19 U

Location	B-1	B-1	B-1
Sample Name	B-1_0.5-1	B-1_0.5-1_LOW	B-1_4.5-5
Sample Date	10/12/2021	10/12/2021	10/12/2021
Sample Depth	0.5-1	0.5-1	4.5-5
VOCs			
1,2,4-Trimethylbenzene	0.63	0.001 J	<0.0026 U
1,3,5-Trimethylbenzene (Mesitylene)	0.3	0.00045 J	<0.0026 U
Acetone	<0.64 U	**0.039**	**0.033**
Benzene	**1.7**	0.01	<0.00064 U
Ethylbenzene	0.58	0.0038	<0.0013 U
Methyl Ethyl Ketone (2-Butanone)	<0.64 U	0.008 J	0.0065 J
Naphthalene	0.18 J	<0.0045 U	<0.0051 U
n-Butylbenzene	0.06 J	0.00028 J	<0.0013 U
n-Propylbenzene	0.13	0.00035 J	<0.0013 U
Tert-Butyl Methyl Ether (MTBE)	**0.33**	0.0015 J	0.0018 J
Toluene	0.63	0.0023	<0.0013 U
Total Xylenes	**1.8**	0.005 J	<0.0013 U
SVOCs			
2-Methylphenol (o-Cresol)	0.055 J	NA	<0.6 U
3 & 4 Methylphenol (m&p Cresol)	0.14 J	NA	<0.86 U
Benzo(a)anthracene	0.13	NA	<0.36 U
Benzo(a)pyrene	0.14 J	NA	<0.48 U
Benzo(b)fluoranthene	0.19	NA	<0.36 U
Chrysene	0.2	NA	<0.36 U
Dibenz(a,h)anthracene	0.026 J	NA	<0.36 U
Indeno(1,2,3-cd)pyrene	0.098 J	NA	<0.48 U
Naphthalene	0.28	NA	<0.6 U
Phenol	<0.19 U	NA	<0.6 U
PCBs			
Total PCBs	0.159	NA	<0.0408 U
Metals			
Arsenic	5.45	NA	3.78
Barium	64.4	NA	41.9
Lead	241	NA	278
Mercury	0.098	NA	0.065 J

Location	B-3	B-3	B-3
Sample Name	B-3_3-4	B-3_3-4_LOW	B-3_9-10
Sample Date	10/12/2021	10/12/2021	10/12/2021
Sample Depth	3-4	3-4	9-10
VOCs			
1,2,4-Trimethylbenzene	1.2	<0.0039 U	**81**
1,3,5-Trimethylbenzene (Mesitylene)	0.51	<0.0039 U	**26**
Acetone	<0.92 U	**0.052**	<2 U
Benzene	**2.3**	0.0049	**0.96**
Ethylbenzene	**1.5**	0.00063 J	**27**
Methyl Ethyl Ketone (2-Butanone)	<0.92 U	0.0053 J	<2 U
Naphthalene	0.19 J	<0.0078 U	9.9
n-Butylbenzene	0.082 J	<0.0019 U	3.6
n-Propylbenzene	0.27	<0.0019 U	**13**
Tert-Butyl Methyl Ether (MTBE)	**1**	0.0026 J	**1.5**
Toluene	**2**	0.0018 J	<0.2 U
Total Xylenes	**4.5**	0.0018 J	**110 J**
SVOCs			
2-Methylphenol (o-Cresol)	NA	<0.2 U	<0.63 U
3 & 4 Methylphenol (m&p Cresol)	NA	0.14 J	<0.9 U
Benzo(a)anthracene	NA	0.55	<0.38 U
Benzo(a)pyrene	NA	0.46	<0.5 U
Benzo(b)fluoranthene	NA	0.7	<0.38 U
Chrysene	NA	0.74	<0.38 U
Dibenz(a,h)anthracene	NA	0.11 J	<0.38 U
Indeno(1,2,3-cd)pyrene	NA	0.36	<0.5 U
Naphthalene	NA	0.66	3.6
Phenol	NA	<0.2 U	<0.63 U
PCBs			
Total PCBs	NA	0.132 J	<0.0401 U
Metals			
Arsenic	NA	**22.7**	**19.2**
Barium	NA	185	71.2
Lead	NA	359	9.95
Mercury	NA	0.185	<0.081 U

Location	B-7	B-7
Sample Name	B-7_1-2	B-7_4-5
Sample Date	10/12/2021	10/12/2021
Sample Depth	1-2	4-5
VOCs		
1,2,4-Trimethylbenzene	<0.0024 U	<0.0035 U
1,3,5-Trimethylbenzene (Mesitylene)	<0.0024 U	<0.0035 U
Acetone	<0.012 U	<0.017 U
Benzene	0.00078	0.0012
Ethylbenzene	<0.0012 U	<0.0017 U
Methyl Ethyl Ketone (2-Butanone)	<0.012 U	<0.017 U
Naphthalene	<0.0048 U	<0.007 U
n-Butylbenzene	<0.0012 U	<0.0017 U
n-Propylbenzene	<0.0012 U	<0.0017 U
Tert-Butyl Methyl Ether (MTBE)	0.00054 J	0.001 J
Toluene	0.0016	<0.0017 U
Total Xylenes	0.00076 J	<0.0017 U
SVOCs		
2-Methylphenol (o-Cresol)	<0.18 U	<0.2 U
3 & 4 Methylphenol (m&p Cresol)	0.049 J	<0.29 U
Benzo(a)anthracene	**4.7**	0.59
Benzo(a)pyrene	4	0.51
Benzo(b)fluoranthene	**5.1**	0.67
Chrysene	**3.6**	0.52
Dibenz(a,h)anthracene	0.96	0.077 J
Indeno(1,2,3-cd)pyrene	3.1	0.34
Naphthalene	0.58	0.37
Phenol	<0.18 U	<0.2 U
PCBs		
Total PCBs	0.26	<0.0403 U
Metals		
Arsenic	8.14	9.18
Barium	326	341
Lead	**645**	**807**
Mercury	1.72	**1.09**

Location	SB04
Sample Name	SB04_4-5
Sample Date	04/08/2026
Sample Depth	4-5
VOCs	
1,2,4-Trimethylbenzene	<0.003 U
1,3,5-Trimethylbenzene (Mesitylene)	<0.003 U
Acetone	**0.031**
Benzene	<0.00076 U
Ethylbenzene	<0.0015 U
Methyl Ethyl Ketone (2-Butanone)	0.0049 J
Naphthalene	<0.0061 U
n-Butylbenzene	<0.0015 U
n-Propylbenzene	<0.0015 U
Tert-Butyl Methyl Ether (MTBE)	<0.003 U
Toluene	<0.0015 U
Total Xylenes	<0.0015 U
SVOCs	
2-Methylphenol (o-Cresol)	<0.2 U
3 & 4 Methylphenol (m&p Cresol)	<0.29 U
Benzo(a)anthracene	0.11 J
Benzo(a)pyrene	0.091 J
Benzo(b)fluoranthene	0.11 J
Chrysene	0.13
Dibenz(a,h)anthracene	<0.12 U
Indeno(1,2,3-cd)pyrene	0.052 J
Naphthalene	0.063 J
Phenol	<0.2 U
PCBs	
Total PCBs	<0.0592 U
Metals	
Arsenic	8.35
Barium	20.4
Chromium, Trivalent	3.6
Lead	7.66
Mercury	<0.09 U

Location	B-14
Sample Name	B-14_8-9
Sample Date	10/12/2021
Sample Depth	8-9
VOCs	
1,2,4-Trimethylbenzene	<0.0069 U
1,3,5-Trimethylbenzene (Mesitylene)	<0.0069 U
Acetone	**0.29**
Benzene	<0.0017 U
Ethylbenzene	<0.0034 U
Methyl Ethyl Ketone (2-Butanone)	0.048
Naphthalene	<0.014 U
n-Butylbenzene	<0.0034 U
n-Propylbenzene	<0.0034 U
Tert-Butyl Methyl Ether (MTBE)	0.0067 J
Toluene	<0.0034 U
Total Xylenes	<0.0034 U
SVOCs	
2-Methylphenol (o-Cresol)	<0.31 U
3 & 4 Methylphenol (m&p Cresol)	0.16 J
Benzo(a)anthracene	0.32
Benzo(a)pyrene	0.36
Benzo(b)fluoranthene	0.36
Chrysene	0.3
Dibenz(a,h)anthracene	0.05 J
Indeno(1,2,3-cd)pyrene	0.21 J
Naphthalene	0.8
Phenol	<0.31 U
PCBs	
Total PCBs	<0.0624 U
Metals	
Arsenic	8.78
Barium	86.4
Lead	117
Mercury	**2.21**

Location	SB05
Sample Name	SB05_5-6
Sample Date	04/08/2026
Sample Depth	5-6
VOCs	
1,2,4-Trimethylbenzene	<0.0034 U
1,3,5-Trimethylbenzene (Mesitylene)	<0.0034 U
Acetone	**0.19**
Benzene	<0.00086 U
Ethylbenzene	<0.0017 U
Methyl Ethyl Ketone (2-Butanone)	0.031
Naphthalene	<0.0068 U
n-Butylbenzene	<0.0017 U
n-Propylbenzene	<0.0017 U
Tert-Butyl Methyl Ether (MTBE)	0.0012 J
Toluene	<0.0017 U
Total Xylenes	<0.0017 U
SVOCs	
2-Methylphenol (o-Cresol)	<0.26 U
3 & 4 Methylphenol (m&p Cresol)	<0.38 U
Benzo(a)anthracene	0.44
Benzo(a)pyrene	0.43
Benzo(b)fluoranthene	0.52
Chrysene	0.44
Dibenz(a,h)anthracene	0.062 J
Indeno(1,2,3-cd)pyrene	0.26
Naphthalene	0.19 J
Phenol	<0.26 U
PCBs	
Total PCBs	0.0289 J
Metals	
Arsenic	**19.7**
Barium	93.4
Chromium, Trivalent	210
Lead	246
Mercury	**1.64**

Location	B-15
Sample Name	B-15_4.5-5.5
Sample Date	10/12/2021
Sample Depth	4.5-5.5
VOCs	
1,2,4-Trimethylbenzene	<0.0051 U
1,3,5-Trimethylbenzene (Mesitylene)	<0.0051 U
Acetone	<0.026 U
Benzene	<0.0013 U
Ethylbenzene	<0.0026 U
Methyl Ethyl Ketone (2-Butanone)	<0.026 U
Naphthalene	<0.01 U
n-Butylbenzene	<0.0026 U
n-Propylbenzene	<0.0026 U
Tert-Butyl Methyl Ether (MTBE)	<0.0051 U
Toluene	<0.0026 U
Total Xylenes	<0.0026 U
SVOCs	
2-Methylphenol (o-Cresol)	<0.26 U
3 & 4 Methylphenol (m&p Cresol)	<0.37 U
Benzo(a)anthracene	0.27
Benzo(a)pyrene	0.36
Benzo(b)fluoranthene	0.38
Chrysene	0.28
Dibenz(a,h)anthracene	0.049 J
Indeno(1,2,3-cd)pyrene	0.22
Naphthalene	0.3
Phenol	<0.26 U
PCBs	
Total PCBs	<0.0498 U
Metals	
Arsenic	**26.8**
Barium	92.6
Lead	213
Mercury	**2.14**

Location	B-13	B-13
Sample Name	B-13_8-9	B-13_9-10
Sample Date	10/12/2021	10/12/2021
Sample Depth	8-9	9-10
VOCs		
1,2,4-Trimethylbenzene	<0.0031 U	<0.0024 U
1,3,5-Trimethylbenzene (Mesitylene)	<0.0031 U	<0.0024 U
Acetone	**0.051**	0.0089 J
Benzene	<0.00078 U	<0.00061 U
Ethylbenzene	<0.0016 U	<0.0012 U
Methyl Ethyl Ketone (2-Butanone)	0.0055 J	<0.012 U
Naphthalene	<0.0062 U	<0.0049 U
n-Butylbenzene	<0.0016 U	<0.0012 U
n-Propylbenzene	<0.0016 U	<0.0012 U
Tert-Butyl Methyl Ether (MTBE)	0.00034 J	<0.0024 U
Toluene	<0.0016 U	<0.0012 U
Total Xylenes	<0.0016 U	<0.0012 U
SVOCs		
2-Methylphenol (o-Cresol)	<0.21 U	<0.2 U
3 & 4 Methylphenol (m&p Cresol)	<0.31 U	<0.29 U
Benzo(a)anthracene	<0.13 U	<0.12 U
Benzo(a)pyrene	<0.17 U	<0.16 U
Benzo(b)fluoranthene	<0.13 U	<0.12 U
Chrysene	<0.13 U	<0.12 U
Dibenz(a,h)anthracene	<0.13 U	<0.12 U
Indeno(1,2,3-cd)pyrene	<0.17 U	<0.16 U
Naphthalene	<0.21 U	<0.2 U
Phenol	<0.21 U	<0.2 U
PCBs		
Total PCBs	<0.0434 U	<0.04 U
Metals		
Arsenic	1.94	1.65
Barium	18.3	20.6
Lead	8.77	2.68 J
Mercury	<0.082 U	<0.076 U

Location	SB03	SB03
Sample Name	SB03_0.5-1.5	SB03_11-12
Sample Date	04/09/2026	04/09/2026
Sample Depth	0.5-1.5	11-12
VOCs		
1,2,4-Trimethylbenzene	2.9	0.00072 J
1,3,5-Trimethylbenzene (Mesitylene)	0.19	0.00047 J
Acetone	0.015	**0.025**
Benzene	0.00031 J	<0.00036 U
Ethylbenzene	0.02	<0.00072 U
Methyl Ethyl Ketone (2-Butanone)	<0.014 U	0.012
Naphthalene	0.059	0.0023 J
n-Butylbenzene	0.028	<0.00072 U
n-Propylbenzene	0.031	<0.00072 U
Tert-Butyl Methyl Ether (MTBE)	0.00047 J	0.00031 J
Toluene	0.002	<0.00072 U
Total Xylenes	0.11	<0.00072 U
SVOCs		
2-Methylphenol (o-Cresol)	<0.19 U	<0.55 U
3 & 4 Methylphenol (m&p Cresol)	<0.27 U	0.2 J
Benzo(a)anthracene	0.39	**1.5**
Benzo(a)pyrene	0.34	1.6
Benzo(b)fluoranthene	0.42	2.1
Chrysene	0.38	**1.9**
Dibenz(a,h)anthracene	0.059 J	0.25 J
Indeno(1,2,3-cd)pyrene	0.2	0.9
Naphthalene	0.51	0.44 J
Phenol	<0.19 U	<0.55 U
PCBs		
Total PCBs	0.188 J	NA
Metals		
Arsenic	11.7	NA
Barium	**864**	NA
Chromium, Trivalent	36.5	NA
Lead	**975**	NA
Mercury	0.188	NA

Legend

- Approximate Site Boundary
- Boring Location
- Boring Location/Monitoring Well
- Boring Location/Sub-slab Vapor Point
- 3017 Tax Block
- 29 Tax Parcel

Analyte	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	NYSDEC Part 375 Restricted Use Industrial SCOs
VOCs				
1,2,4-Trimethylbenzene	3.6	100	500	1000
1,3,5-Trimethylbenzene (Mesitylene)	3.1	100	500	1000
Acetone	0.03	100	500	1000
Benzene	0.06	3.7	20	20
Ethylbenzene	1	78	390	390
Methyl Ethyl Ketone (2-Butanone)	0.1	100	500	1000
Naphthalene	12	100	500	1000
n-Butylbenzene	18	100	500	1000
n-Propylbenzene	5	100	500	1000
Tert-Butyl Methyl Ether (MTBE)	0.1	100	500	890
Toluene	0.7	100	500	1000
Total Xylenes	1.2	100	500	1000
SVOCs				
2-Methylphenol (o-Cresol)	0.33	100	500	1000
3 & 4 Methylphenol (m&p Cresol)	0.33	100	500	1000
Benzo(a)anthracene	1	1.4	37	37
Benzo(a)pyrene	22	1	3.7	3.7
Benzo(b)fluoranthene	2.1	1.4	37	37
Chrysene	1	4.9	47	78
Dibenz(a,h)anthracene	1000	0.33	3.7	3.7
Indeno(1,2,3-cd)pyrene	8.6	1.4	37	37
Naphthalene	12	100	500	1000
Phenol	0.33	100	500	1000
PCBs				
Total PCBs	3.2	1	1	25
Metals				
Arsenic	16	16	16	16
Barium	820	410	410	10000
Chromium, Trivalent	NS	110	1700	2000
Lead	450	400	1000	3900
Mercury	0.73	0.3	1.1	1.1

Exceedance Summary:

- **10** - Result exceeds Protection of Groundwater SCOs
- 10 - Result exceeds Restricted Use Restricted-Residential SCOs
- 10 - Result exceeds Restricted Use Commercial SCOs
- 10 - Result exceeds Restricted Use Industrial SCOs

Notes:

1. Aerial imagery provided through Langan's subscription to NearMap.com, flown 7/3/2025.
2. Parcel data is provided by the New York City Department of City Planning.
3. All features shown are approximate.
4. Block 3017, Lot 29 is being subdivided into two lots, Lots 29 and 30. The Brownfield Cleanup Program (BCP) site will be future Lot 29.
5. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Protection of Groundwater, Restricted Use Residential and Restricted Use Commercial Soil Cleanup Objectives (SCO) and Restricted Use Industrial (December 2025).
6. Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and 4-methylphenol (p-cresol).
7. The criteria comparison for total chromium is provided for reference. The promulgated SCO shown is for hexavalent chromium.
8. Results are shown in mg/kg (milligrams per kilogram)
9. <RL - Not detected
10. Add note that "Soil samples taken from soil borings SB01 and SB02 during the 2026 Limited Subsurface Investigation were only analyzed for volatile organic compounds (VOC) and semi-vclatile organic compounds (SVOC).

Qualifiers:

J - The analyte was detected above the method detection limit (MDL), but below the reporting limit (RL); therefore, the result is an estimated concentration.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

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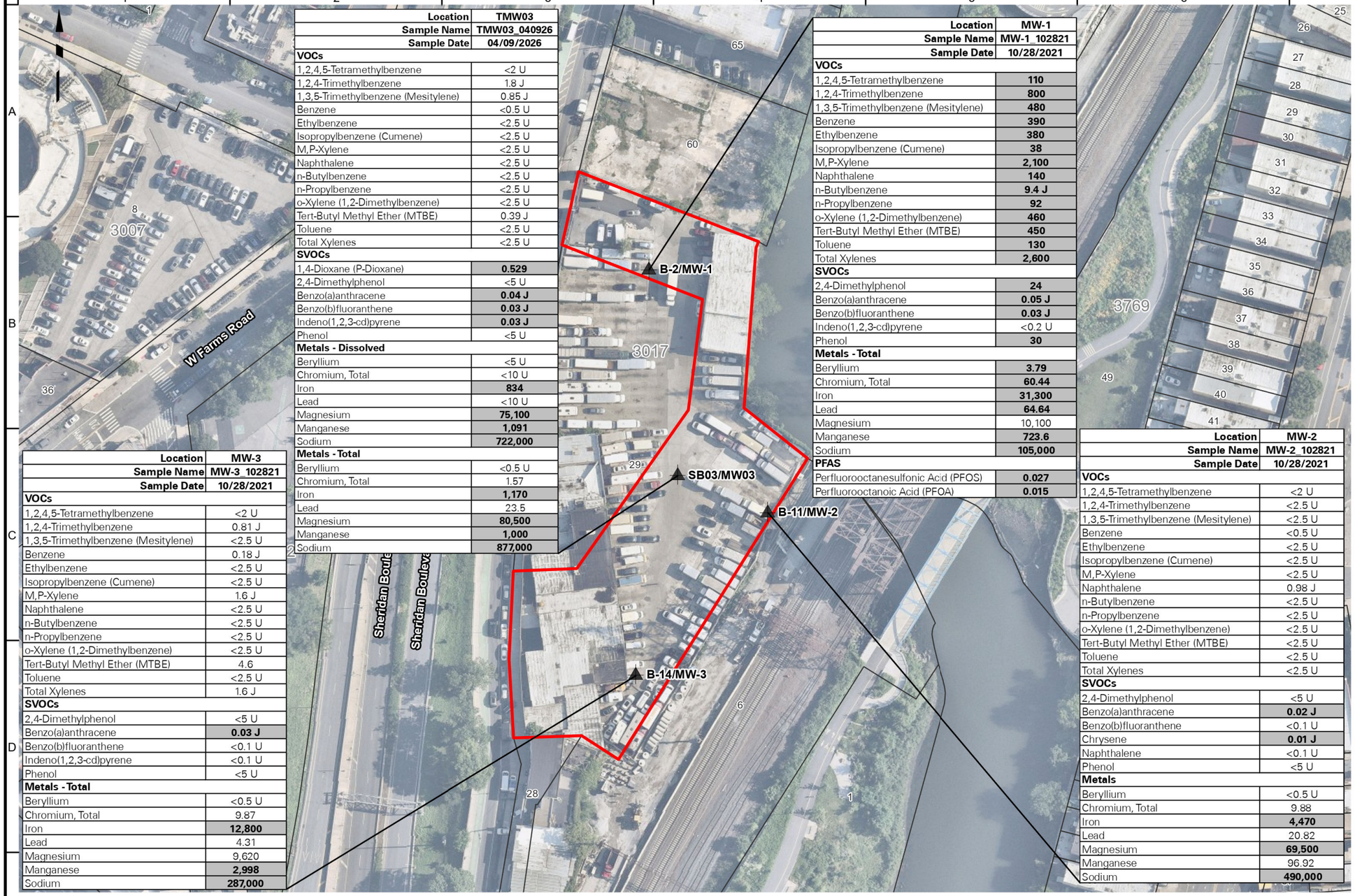
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BLOCK No. 3017, p/o LOT No. 29
BRONX NEW YORK

Figure Title
HISTORICAL SOIL SAMPLING ANALYTICAL RESULTS MAP

Project No. 170970901
Date 7/31/2026
Scale 1"=150'
Drawn By MG
Figure No. 4

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Location	MW-3
Sample Name	MW-3_102821
Sample Date	10/28/2021
VOCs	
1,2,4,5-Tetramethylbenzene	<2 U
1,2,4-Trimethylbenzene	0.81 J
1,3,5-Trimethylbenzene (Mesitylene)	<2.5 U
Benzene	0.18 J
Ethylbenzene	<2.5 U
Isopropylbenzene (Cumene)	<2.5 U
M,P-Xylene	1.6 J
Naphthalene	<2.5 U
n-Butylbenzene	<2.5 U
n-Propylbenzene	<2.5 U
o-Xylene (1,2-Dimethylbenzene)	<2.5 U
Tert-Butyl Methyl Ether (MTBE)	4.6
Toluene	<2.5 U
Total Xylenes	1.6 J
SVOCs	
2,4-Dimethylphenol	<5 U
Benzo(a)anthracene	**0.03 J**
Benzo(b)fluoranthene	<0.1 U
Indeno(1,2,3-cd)pyrene	<0.1 U
Phenol	<5 U
Metals - Total	
Beryllium	<0.5 U
Chromium, Total	9.87
Iron	**12,800**
Lead	4.31
Magnesium	9,620
Manganese	**2,998**
Sodium	**287,000**

Location	TMW03
Sample Name	TMW03_040926
Sample Date	04/09/2026
VOCs	
1,2,4,5-Tetramethylbenzene	<2 U
1,2,4-Trimethylbenzene	1.8 J
1,3,5-Trimethylbenzene (Mesitylene)	0.85 J
Benzene	<0.5 U
Ethylbenzene	<2.5 U
Isopropylbenzene (Cumene)	<2.5 U
M,P-Xylene	<2.5 U
Naphthalene	<2.5 U
n-Butylbenzene	<2.5 U
n-Propylbenzene	<2.5 U
o-Xylene (1,2-Dimethylbenzene)	<2.5 U
Tert-Butyl Methyl Ether (MTBE)	0.39 J
Toluene	<2.5 U
Total Xylenes	<2.5 U
SVOCs	
1,4-Dioxane (P-Dioxane)	**0.529**
2,4-Dimethylphenol	<5 U
Benzo(a)anthracene	**0.04 J**
Benzo(b)fluoranthene	**0.03 J**
Indeno(1,2,3-cd)pyrene	**0.03 J**
Phenol	<5 U
Metals - Dissolved	
Beryllium	<5 U
Chromium, Total	<10 U
Iron	**834**
Lead	<10 U
Magnesium	**75,100**
Manganese	**1,091**
Sodium	**722,000**
Metals - Total	
Beryllium	<0.5 U
Chromium, Total	1.57
Iron	**1,170**
Lead	23.5
Magnesium	**80,500**
Manganese	**1,000**
Sodium	**877,000**

Location	MW-1
Sample Name	MW-1_102821
Sample Date	10/28/2021
VOCs	
1,2,4,5-Tetramethylbenzene	**110**
1,2,4-Trimethylbenzene	**800**
1,3,5-Trimethylbenzene (Mesitylene)	**480**
Benzene	**390**
Ethylbenzene	**380**
Isopropylbenzene (Cumene)	**38**
M,P-Xylene	**2,100**
Naphthalene	**140**
n-Butylbenzene	**9.4 J**
n-Propylbenzene	**92**
o-Xylene (1,2-Dimethylbenzene)	**460**
Tert-Butyl Methyl Ether (MTBE)	**450**
Toluene	**130**
Total Xylenes	**2,600**
SVOCs	
2,4-Dimethylphenol	**24**
Benzo(a)anthracene	**0.05 J**
Benzo(b)fluoranthene	**0.03 J**
Indeno(1,2,3-cd)pyrene	<0.2 U
Phenol	**30**
Metals - Total	
Beryllium	**3.79**
Chromium, Total	**60.44**
Iron	**31,300**
Lead	**64.64**
Magnesium	10,100
Manganese	**723.6**
Sodium	**105,000**
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	**0.027**
Perfluorooctanoic Acid (PFOA)	**0.015**

Location	MW-2
Sample Name	MW-2_102821
Sample Date	10/28/2021
VOCs	
1,2,4,5-Tetramethylbenzene	<2 U
1,2,4-Trimethylbenzene	<2.5 U
1,3,5-Trimethylbenzene (Mesitylene)	<2.5 U
Benzene	<0.5 U
Ethylbenzene	<2.5 U
Isopropylbenzene (Cumene)	<2.5 U
M,P-Xylene	<2.5 U
Naphthalene	0.98 J
n-Butylbenzene	<2.5 U
n-Propylbenzene	<2.5 U
o-Xylene (1,2-Dimethylbenzene)	<2.5 U
Tert-Butyl Methyl Ether (MTBE)	<2.5 U
Toluene	<2.5 U
Total Xylenes	<2.5 U
SVOCs	
2,4-Dimethylphenol	<5 U
Benzo(a)anthracene	**0.02 J**
Benzo(b)fluoranthene	<0.1 U
Chrysene	**0.01 J**
Naphthalene	<0.1 U
Phenol	<5 U
Metals	
Beryllium	<0.5 U
Chromium, Total	9.88
Iron	**4,470**
Lead	20.82
Magnesium	**69,500**
Manganese	96.92
Sodium	**490,000**

Legend

- Approximate Site Boundary
- Boring Location/Monitoring Well
- 3017 Tax Block
- 29 Tax Parcel

Analyte	NYSDEC SGVs
VOCs	
1,2,4,5-Tetramethylbenzene	5
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene (Mesitylene)	5
1,4-Dioxane (P-Dioxane)	0.35
Benzene	1
Ethylbenzene	5
Isopropylbenzene (Cumene)	5
M,P-Xylene	5
Naphthalene	10
n-Butylbenzene	5
n-Propylbenzene	5
o-Xylene (1,2-Dimethylbenzene)	5
Tert-Butyl Methyl Ether (MTBE)	10
Toluene	5
Total Xylenes	5
SVOCs	
1,4-Dioxane (P-Dioxane)	0.35
2,4-Dimethylphenol	1
Benzo(a)anthracene	0.002
Benzo(b)fluoranthene	0.002
Indeno(1,2,3-cd)pyrene	0.002
Naphthalene	10
Phenol	1
Metals - Dissolved	
Beryllium	3
Chromium, Total	50
Iron	300
Lead	25
Magnesium	35000
Manganese	300
Sodium	20000
Metals - Total	
Beryllium	3
Chromium, Total	50
Iron	300
Lead	25
Magnesium	35000
Manganese	300
Sodium	20000
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.0027
Perfluorooctanoic Acid (PFOA)	0.0067

Exceedance Summary:

10 - Result exceeds NYSDEC SGVs

Notes:
1. Aerial imagery provided through Langan's subscription to NearMap.com, flown 7/3/2025.
2. Parcel data is provided by the New York City Department of City Planning.
3. All features shown are approximate.
4. Block 3017, Lot 29 is being subdivided into two lots, Lots 29 and 30. The Brownfield Cleanup Program (BCP) site will be future Lot 29.
5. ECC - Environmental Compliance & Control, Inc.
6. Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water and published addenda (herein collectively referenced as "NYSDEC SGVs").
7. The criteria comparison for total metals (Chromium, Total) is provided for reference. The promulgated SGV shown is for hexavalent chromium.
8. Results are shown in µg/l (micrograms per liter)
9. <RL - Not detected

Qualifiers:
G - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
J - The analyte was detected above the method detection limit (MDL), but below the reporting limit (RL); therefore, the result is an estimated concentration.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

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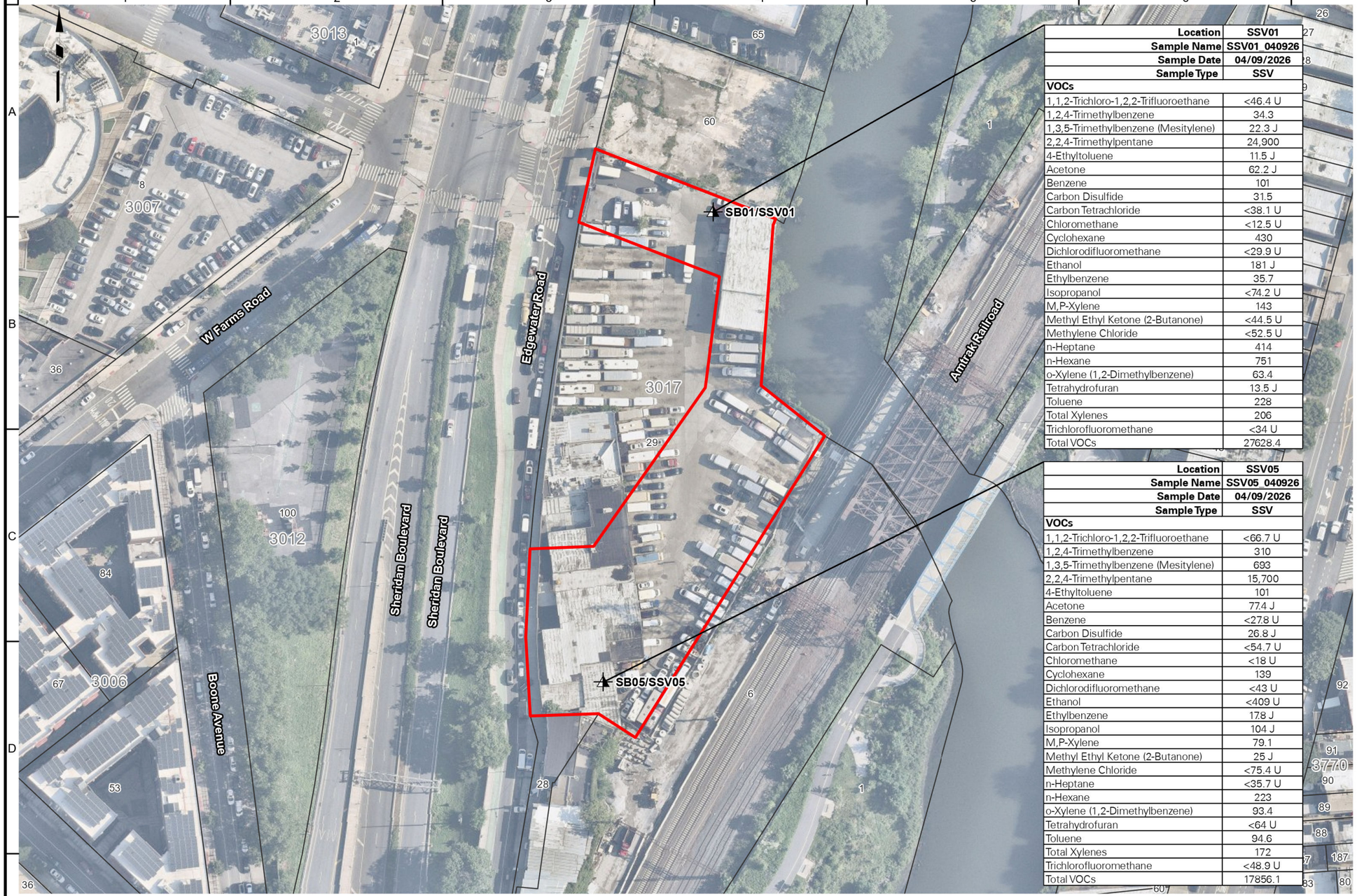
Figure Title
HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS MAP

Project No. 170970901
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Figure No. 5

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Location	SSV01
Sample Name	SSV01_040926
Sample Date	04/09/2026
Sample Type	SSV
VOCs	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<46.4 U
1,2,4-Trimethylbenzene	34.3
1,3,5-Trimethylbenzene (Mesitylene)	22.3 J
2,2,4-Trimethylpentane	24,900
4-Ethyltoluene	11.5 J
Acetone	62.2 J
Benzene	101
Carbon Disulfide	31.5
Carbon Tetrachloride	<38.1 U
Chloromethane	<12.5 U
Cyclohexane	430
Dichlorodifluoromethane	<29.9 U
Ethanol	181 J
Ethylbenzene	35.7
Isopropanol	<74.2 U
M,P-Xylene	143
Methyl Ethyl Ketone (2-Butanone)	<44.5 U
Methylene Chloride	<52.5 U
n-Heptane	414
n-Hexane	751
o-Xylene (1,2-Dimethylbenzene)	63.4
Tetrahydrofuran	13.5 J
Toluene	228
Total Xylenes	206
Trichlorofluoromethane	<34 U
Total VOCs	27628.4

Location	SSV05
Sample Name	SSV05_040926
Sample Date	04/09/2026
Sample Type	SSV
VOCs	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<66.7 U
1,2,4-Trimethylbenzene	310
1,3,5-Trimethylbenzene (Mesitylene)	693
2,2,4-Trimethylpentane	15,700
4-Ethyltoluene	101
Acetone	77.4 J
Benzene	<27.8 U
Carbon Disulfide	26.8 J
Carbon Tetrachloride	<54.7 U
Chloromethane	<18 U
Cyclohexane	139
Dichlorodifluoromethane	<43 U
Ethanol	<409 U
Ethylbenzene	17.8 J
Isopropanol	104 J
M,P-Xylene	79.1
Methyl Ethyl Ketone (2-Butanone)	25 J
Methylene Chloride	<75.4 U
n-Heptane	<35.7 U
n-Hexane	223
o-Xylene (1,2-Dimethylbenzene)	93.4
Tetrahydrofuran	<64 U
Toluene	94.6
Total Xylenes	172
Trichlorofluoromethane	<48.9 U
Total VOCs	17856.1

Legend

- Approximate Site Boundary
- Boring Location/Sub-slab Vapor Point
- 3017 Tax Block
- 29 Tax Parcel

Notes:
1. Aerial imagery provided through Langan's subscription to NearMap.com, flown 7/3/2025.
2. Parcel data is provided by the New York City Department of City Planning.
3. All features shown are approximate.
4. Block 3017, Lot 29 is being subdivided into two lots, Lots 29 and 30. The Brownfield Cleanup Program (BCP) site will be future Lot 29.
5. ug/m3 - microgram per cubic meter
6. Results are shown in µg/l (micrograms per liter)
7. <RL - Not detected

Qualifiers:
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Figure Title
HISTORICAL SOIL VAPOR SAMPLE ANALYTICAL RESULTS MAP

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Legend

- Approximate Site Boundary
- 3017 Tax Block
- 29 Tax Parcel
- Proposed Soil Boring Location
- Proposed Soil Boring/Monitoring Well Location
- Proposed Soil Boring/Monitoring Well/Soil Vapor Location
- Previous Boring Location
- Previous Boring Location/Monitoring Well
- Previous Boring Location/Soil Vapor Point
- Previous Boring Location/Soil Vapor Point/Monitoring Well
- Approximate Location of Suspected Underground Storage Tank (UST)
- AOC 1 - Sitewide Historical Use as a Coal and Lumber Yard
- AOC 2 - Historical Site Use as a Concrete Manufacturer and Auto Parts Warehouse and Wrecking Yard
- AOC 3 - Petroleum Impacts in Soil, Groundwater, and Soil Vapor
- AOC 4 - Suspected Underground Storage Tank (UST)

Notes:
1. Aerial imagery provided through Langan's subscription to NearMap.com, flown 7/3/2025.
2. Parcel data is provided by the New York City Department of City Planning.
3. All features shown are approximate.
4. Block 3017, Lot 29 is being subdivided into two lots, Lots 29 and 30. The Brownfield Cleanup Program (BCP) site will be future Lot 29.
5. AOC - Area of Concern
6. UST - Underground Storage Tank
7. Previous soil borings, monitoring wells, and soil vapor point locations were advanced during the previous December 2018 Phase II Environmental Site Assessment and the April 2026 Limited Subsurface Investigation.

WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless acting under the direction of a licensed professional engineer, land surveyor or geologist, to alter this item in any way.

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SCALE IN FEET

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Project
1480 SHERIDAN BOULEVARD
BLOCK No. 3017, LOT No. 29
BRONX NEW YORK

Figure Title
AOC MAP AND PROPOSED SAMPLE LOCATION PLAN

Project No. 170970901
Date 8/14/2026
Scale 1"=70'
Drawn By MG

Figure No. 7

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Path: \\langan.com\data\NYC\data9\170970901\Project Data\ArcGIS\APRX\170970901\170970901.aprx

APPENDIX A

PREVIOUS ENVIRONMENTAL REPORTS

Environmental Engineering Compliance Control, D.P.C.
One Emery Avenue, Suite 2, Randolph, NJ | 07869 | 201-552-0224

November 23, 2021

Ms. Megan Guy
Vice President of Development
Simone Development Companies
1250 Waters Place, PH1
Bronx, New York 10461

Re: Phase II Environmental Site Assessment Report
Environmental Sampling
1460 + 1480 Sheridan Expressway
Bronx, New York

Dear Ms. Guy,

Environmental Engineering Compliance Control, D.P.C. (EECC), on behalf of Sustainable Development Inc. (SDI), is pleased to submit this Phase II Environmental Site Assessment (ESA) report summarizing the subsurface investigation, environmental sampling, and laboratory analyses services performed at 1460 and 1480 Sheridan Expressway, Bronx, NY (i.e., the subject properties), which are planned to be redeveloped by Simone Development Companies (Simone) into residential complexes. A site location map is provided as **Figure 1**.

1.0 INTRODUCTION

EECC has prepared this Phase II ESA at the request of Simone for the addresses 1460 and 1480 Sheridan Expressway (herein referred to as 1460 and 1480, respectively). The purpose of this Phase II ESA was to perform intrusive soil and groundwater sampling to supplement a Phase I ESA completed by CDM Smith for the subject properties in December 2018. The Phase II ESA was also performed to provide Simone with additional environmental information regarding the subject property in relation to a proposed property redevelopment. Finally, the Phase II ESA was performed to evaluate potential site impacts from on-site historic use for possible entry into the United State Environmental Protection Agency (US EPA) Brownfield Program.

The objectives of the site assessment activities were to characterize the current on-site chemical impacts in the soil and groundwater, if any. Representative samples of soil collected at the subject properties were selected for analysis of New York State Department of Environmental Conservation (NYSDEC) target-compound-list (TCL) volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), gasoline-range organics (GRO), diesel-range organics (DRO), and target analyte list (TAL) metals. Representative groundwater samples collected at the subject property were selected for analysis of VOCs, SVOCs, TAL metals, and per- and polyfluoroalkyl substances (PFAS). This report details the findings of the Phase II sampling investigation at the subject properties.

2.0 SITE DESCRIPTION

The subject properties are owned by Simone and currently multiple commercial businesses operate on the properties. Details regarding the current property uses and historic property uses are provided below.

2.1 Physical Setting

According to the USGS 7.5–minute topographic map of the area (Central Park, 2013) and the EDR Physical Setting Source Summary, the subject property is situated in an area with a slight easterly slope and a surface elevation of approximately 8 feet above mean sea level (MSL). The groundwater flow direction is likely to the east, following the topography toward the Bronx River, which is adjacent to the subject properties. The groundwater elevation is likely influenced by the tides. The Harlem River is located approximately 2.5 miles west of the subject properties. The properties are located in a mixed residential/commercial/industrial area in the South Bronx.

2.2 Site Location and Identified Recognized Environmental Conditions

2.2.1 1460 Sheridan

The property located at 1460 is a 1.02-acre plot which is occupied by Garage Gurus, Federal-Mogul Motorparts, an automotive parts store, and Moncon, Inc., a construction drilling and foundation company which utilizes the property as an equipment yard. The automotive parts store is located on the northern portion of 1460 and is constructed with a warehouse building and a paved parking area. The equipment yard is located on the southern end of 1460 and has temporary structures made of shipping containers. To the north of 1460 is Starlight Park, to the south is the Sheridan Hotel. To the east is the Bronx River, and Sheridan Expressway is to the west.

According to the Phase I by CDM Smith, the following recognized environmental conditions (RECs) were identified on 1460:

- 1460 has been used as a coal and lumber yard, railway company, including a powerhouse, garage, bus repair, and paint shop.
- Spills and/or removals of petroleum aboveground storage tank (ASTs) and underground storage tanks (USTs) on-site and directly adjacent to the subject properties.
- Several upgradient or nearby properties were identified for their potential to impact groundwater on the subject property. The upgradient sites include known Hazardous Waste Sites, Volunteer Cleanups, Brownfields, and historic automotive properties.

2.2.2 1480 Sheridan

The property located at 1480 is a 2.34-acre plot which is a commercial parking facility and office building. There are several structures on the premises, including parking garages and bays, and an office building. To the north of 1480 is Marine Boiler and Welding, Inc., and an automobile detailing center. To the south is On the Spot Auto Collision auto repair shop. A train line runs across the southeastern end of the property. The Bronx River is to the east, and Sheridan Expressway is to the west.

According to the Phase I by CDM Smith, the following RECs were identified:

- 1480 has been used as an iron yard, concrete manufacturing, and automotive maintenance and demolition facility since the 1890s. Potentially significant residual soil and groundwater quality contamination associated with on-site fill materials and historical property use.
- Three gasoline/diesel fuel USTs were reportedly closed and removed from 1480. Details regarding the tank size, closure information and tank conditions were not provided to EECC. Additionally, four aboveground storage tanks (ASTs), including two 1,000-gallon diesel and waste oil and two 249-gallon gasoline tanks were reportedly closed in March 2014. A 1,000-gallon diesel fuel AST was reportedly removed from the site in 2017.
- Hazardous materials used at automotive repair and demolition shops may have been removed off-site using the drainage system. Trench drains were observed near the former location of a UST. Interior floor drainage systems and external storm drains located near historic car maintenance areas of the property are additional potential locations for contamination associated with former site operations.
- Stained concrete was observed on site. Reddish fluid was observed to be spilled on the concrete. This may be indicative of contamination related to site operations or poor housekeeping practices. Empty and partially full containers, spray paint cans, cleaning agents, and 5-gallon buckets were observed throughout the subject property. Debris piles were scattered in the rear southern portion of the property.
- Potential vapor intrusion with historical site use and presence of nearby commercial and light industrial properties.
- An in-ground hydraulic lift was observed in the garage warehouse at 1480. Hydraulic oil and fluids used to operate the hydraulic lift are a potential source of contamination at the site through leaks in lines or hoses.
- Several upgradient or nearby properties were identified for their potential to impact groundwater on the subject property. Sites include known Hazardous Waste Sites, Volunteer Cleanups, Brownfields, and historic automotive properties.

A Phase II ESA was recommended to identify contamination from on-site uses and historical use of the properties, and to identify any contamination from off-site sources.

3.0 INTRUSIVE ENVIRONMENTAL INVESTIGATION

ECC Horizon, Inc. (ECC Horizon) was retained to conduct the field activities associated with the intrusive environmental investigation with technical oversight and coordination provided by EECC. The following sections provide a summary of the field activities conducted at the subject properties.

3.1 Ground Penetrating Radar Survey

Prior to performing ground intrusive activities, a ground penetrating radar (GPR) survey was performed on both properties to locate potential underground utilities in the vicinity of the proposed drilling locations. Drilling locations were adjusted in the field to maintain a minimum distance of three feet away from any sub-grade utilities.

3.1.1 1460 Sheridan

No unique subsurface structures were identified on site.

3.1.2 1480 Sheridan

A UST was identified on the eastern side of the property. The approximate location of the UST and the sub-grade vent port piping are included in **Figure 3**. The UST vent stubs up from the ground at the fence line on the eastern side of the property and is piped vertically along the fence. ECC Horizon was unable to determine the size of the UST or whether the UST is active.

3.2 Intrusive Investigation

Field activities performed by ECC Horizon were conducted on October 12 through 14, 22, and 28, 2021 and included the following:

3.2.1 1460 Sheridan

- Nine soil borings were advanced to a depth of 15 feet below grade surface (bgs), or to refusal, whichever was encountered first. Soil samples were collected from the surface soil (approximately between 1 and 3 feet bgs) and from the top of the saturated zone. A total of 8 samples were analyzed for TCL VOCs, TCL SVOCs, DRO, GRO, PCBs, and TAL metals.
- Two permanent groundwater monitoring wells were installed on the property.
- Groundwater samples were collected from the two wells and analyzed for TCL VOCs, TCL SVOCs, and TAL Metals. One well was sampled and analyzed for PFAS.

A map depicting the locations of the soil boring locations and groundwater wells on 1460 is provided in **Figure 2**.

3.2.2 1480 Sheridan

- Fifteen soil borings were advanced to a depth of 10 feet bgs, or refusal, whichever was encountered first. Soil samples were collected from the surface soil (approximately between 1 and 3 feet bgs) and from the top of the saturated zone. A total of 20 samples were analyzed for TCL VOCs. TCL SVOCs, DRO, GRO, PCBs, and TAL metals.
- Three permanent groundwater wells were installed on the property.
- Groundwater samples were collected from the three wells and were analyzed for TCL VOCs, TCL SVOCs, and TAL metals. One well was sampled and analyzed for PFAS.

A map depicting the locations of the soil boring locations and groundwater wells on 1480 is provided in **Figure 3**.

3.3 Soil Boring and Soil Sample Collection

Coastal Environmental Services, Inc. (Coastal) was contracted to complete the drilling activities. Soils were recovered in dual core liners then field screened with a photoionization detector (PID) and logged. Sample collection was biased toward the highest PID reading, the surface soil interval, the top of groundwater, or any combination thereof. Samples were placed in chilled coolers and transported to Alpha Analytical Laboratory (Alpha) under chain-of-custody.

3.3.1 1460 Sheridan

Borings were advanced to a maximum depth of 15 feet bgs, or to refusal, whichever was encountered first. Drilling in this area was difficult due to the many layers of paving encountered to a depth of approximately 9 feet bgs. Refusal was generally encountered between 4 and 11 feet bgs, and only three borings on the property were advanced to 15 feet bgs, into native soil. Groundwater was encountered at approximately 9 feet bgs.

On the northern portion of 1460, fill material was encountered throughout the borings and included brick, concrete, and anthracite coal fragments. Native soils were predominantly silty sands and clay.

On the southern portion of 1460, the top 9 feet recovered in the borings were primarily identified as fill, concrete, brick, asphalt, and pavement leveling sand. Native soils on the southern portion of 1460 were generally encountered below 9 feet bgs and were identified as brown fine silt and sand, followed by soft brown clay with a slight organic odor and black staining, followed by fine sand.

3.3.2 1480 Sheridan

On the 1480 property, borings were advanced to 10 feet bgs, or refusal, whichever was encountered first, and groundwater was encountered around 4.5 feet bgs.

Soils on the 1480 property were generally characterized as historic fill with anthracite coal, brown silt and sand in the surface soil interval (to approximately 4 feet bgs), underlain by native brown/gray fine silt and clay to approximately 9 feet bgs, underlain by fine sands.

3.4 Groundwater Well Installation

A total of five permanent wells were installed across 1460 and 1480. Groundwater well locations were biased toward the soil borings with the highest PID readings, and in locations to capture potential up-gradient contamination.

Wells were installed using 4-inch diameter hollow-stem augers and 2-inch diameter polyvinyl chloride (PVC) well material. Due to the native soil stratification (clay and silt atop sand), wells were installed with augers as opposed to using direct-push methods as originally proposed to prevent the clay and silt from smearing into the sand layer, which could clog the pore space and prevent groundwater infiltration to the well.

Wells were finished at grade with a locking cap and flush mount cover. Following the installation, the wells were developed to clear the well and filter pack of debris. Wells were developed until they ran dry.

All soil cuttings and purge water were containerized for off-site disposal.

3.4.1 1460 Sheridan

Wells on 1460 were installed to a depth of 15 feet bgs and are constructed with a 0.010 slot screen installed between 5 and 15 feet bgs, and riser installed between 0 and 5 feet bgs. The annular space around the screen was filled with #2 Morrie sand to a depth of 3 feet bgs. A one-foot-thick hydrated bentonite seal was emplaced above the sand pack, then the annular space was grouted to the surface. The locations of the wells are included in **Figure 2**.

3.4.2 1480 Sheridan

Wells on 1480 were installed to a depth of 10 feet bgs with a 0.010 slot screen installed between 3 and 7 feet bgs, and riser installed between 0 and 3 feet bgs. The annular space around the screen was filled with #2 Morrie sand to a depth of 2 feet bgs. A half-foot thick hydrated bentonite seal was emplaced above the sand pack, then the annular space was grouted to the surface. The locations of the wells are included on **Figure 3**.

3.5 Groundwater Sampling

On October 28, ECC Horizon mobilized to the site to collect groundwater samples from the five monitoring wells. Groundwater samples were collected following the US EPA low flow sampling techniques as detailed in the Standard Operating Procedure (SOP)[1] with dedicated tubing for each well. PFAS samples were collected following the *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances Under NYSDEC's Part 375 Remedial Program*, dated June 2021.

Groundwater sampling logs are included as **Attachment 1a and 1b** for 1460 and 1480, respectively. Samples were placed in chilled coolers and transported to Alpha under chain-of-custody.

4.0 RESULTS OF THE INTRUSIVE ENVIRONMENTAL INVESTIGATION

The results of the Phase II ESA are presented below.

4.1 Soil Sample Analysis Results

Analytical results of the soil samples were compared to New York Codes, Rules and Regulations (NYCRR) Part 375 Restricted Commercial (RES-C), Restricted Residential (RES-RR), and Unrestricted Use (UNRES) criteria. Results are summarized below:

4.1.1 1460 Sheridan

- **Tables 1a, 2a,** and **4a** present only the samples and compounds which exceed regulatory criteria for VOCs, SVOCs, and metals, respectively.
- No GRO or DRO constituents, or PCBs were detected above regulatory criteria on 1460.
- Only acetone was detected above regulatory criteria in sample B-22 (14-15). Acetone is a common laboratory contaminant, thus, EECC assumes the presence of acetone in the sample is not representative of the site conditions.
- SVOCs were detected above regulatory criteria in two boring locations on the northern portion of 1460.
- Metals were detected above regulatory criteria in four locations across 1460.

4.1.2 1480 Sheridan

- **Tables 1b, 2b, 3,** and **4b** present only the samples and compounds which exceed regulatory criteria for VOCs, SVOCs, PCBs, and metals, respectively.
- No GRO or DRO constituents were detected above regulatory criteria on 1480.
- VOC contamination was present predominantly in boring B-2, and the presumed downgradient location, B-3. Compounds detected include benzene,

1 The low flow sampling techniques used during the sample collection can be accessed at: https://www.epa.gov/quality/low-stress-low-flow-purging-and-sampling-procedure-collection-groundwater-samples-monitoring

ethylbenzene, toluene, and xylenes (BTEX), and other gasoline and diesel constituents. The B-2 boring was advanced through a brick paved area under parked buses and trucks. It is opined that the BTEX, and gasoline/diesel constituents originate from incidental spills from the buses and trucks in the area.

- SVOCs were detected in borings B-7 and B-8 above regulatory criteria. Slight exceedances of UNRES criteria were detected in B-2.
- PCBs were detected above RES-C and RES-RR criteria in sample B-10, which was collected outside the garage where the former hydraulic lift was located. PCBs were detected in samples B-1, B-3, and B-7 over the UNRES criteria.
- Metals were detected above regulatory criteria in many samples collected across the site.

Laboratory analytical results are included in **Attachment 2**.

4.2 Groundwater Sample Analysis Results

Groundwater samples were collected from the permanent wells installed on the properties. Analytical results were compared to New York Ambient Water Quality Standards and Guidance Values (AWQS) as defined in the Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. Analytical results for each of the properties is discussed below.

4.2.1 1460 Sheridan

- **Table 5a** presents only the compounds which exceed regulatory criteria for VOCs, SVOCs, and metals for wells MW-4 and MW-5. All detections of PFAS compounds are included in **Table 5a**.
- Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were detected in MW-5 at concentrations of 0.0143 µg/l and 0.0187 µg/l, respectively. NYSDEC has not established an AWQS for PFAS.[2] There is no indication that PFAS originated from an on-site use.
- SVOCs and Metals were detected above regulatory criteria in both wells on-site.

4.2.2 1480 Sheridan

- **Table 5b** presents only the compounds which exceed regulatory criteria for VOCs, SVOCs, and Metals for wells MW-1, MW-2, and MW-3. All detections of PFAS compounds are included in **Table 5b**.

2 Although PFAS does not have an AWQS, under Subpart 5-1 of Title 10 (Health) of the Official Compilation of Codes, Rules and Regulations of the State of New York, the state established drinking water standards for perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) of 0.010 µg/l (each). The PFAS concentration in the groundwater sample from MW-5 exceeded this drinking water standard.

- PFOA and PFOS were detected in well MW-1 at concentrations of 0.015 µg/l and 0.027 µg/l, respectively.
- SVOCs and Metals were detected above regulatory criteria in all wells on-site.
- VOC analysis exhibited BTEX and gasoline/diesel constituents in MW-1. MW-1 was installed in the same location as borehole B-2.

Laboratory analytical results are included in **Attachment 2**.

5.0 SUMMARY AND CONCLUSIONS

EECC completed a Phase II ESA at the request of Simone which focused on areas identified as RECs by CDM Smith's 2018 Phase ESA I report issued for the subject properties located at 1460 and 1480 Sheridan Expressway, Bronx, New York. The following conclusions are based on the laboratory analytical data and field observations from EECC's investigation:

5.1 1460 Sheridan

- Fill material, including anthracite coal, was identified in the borings collected from the property.
- SVOCs and metals were detected above regulatory criteria in both the soil and groundwater on site.
- PFOA and PFOS were detected in MW-5. There is no indication that PFAS originated from an on-site source or historic property use.

5.2 1480 Sheridan

- Fill material, including anthracite coal, was identified in the borings collected from the property.
- SVOCs and metals were detected above regulatory criteria in both the soil and groundwater on site.
- A UST is located on site. EECC recommends confirming the volume and status of the UST prior to removing it from the property. The tank may need to be registered and tank closure may need to be reported to NYSDEC depending on the volume of the tank.
- BTEX and gasoline/diesel constituents were detected above regulatory criteria in the soil and groundwater in B-2 and B-3, and MW-1, respectively. The presence of these contaminants is presumed to be from incidental spills from the busses and trucks parked atop a brick paved area.
- PCBs were detected outside the garage containing the former hydraulic lift, and above UNRES criteria in three other locations on site.
- PFOA and PFOS were detected in MW-1. There is no indication that PFAS originated from an on-site source or historic property use.

EECC appreciates the opportunity to provide these services to Simone. Please feel free to contact us should you have questions or require additional information regarding this Phase II ESA and the sampling results.

Sincerely,





Nicholas Krasnecky, P.E.
Senior Design Engineer
Environmental Engineering Compliance Control, D.P.C.

Al Nesheiwat
Managing Director
Sustainable Development, Inc.

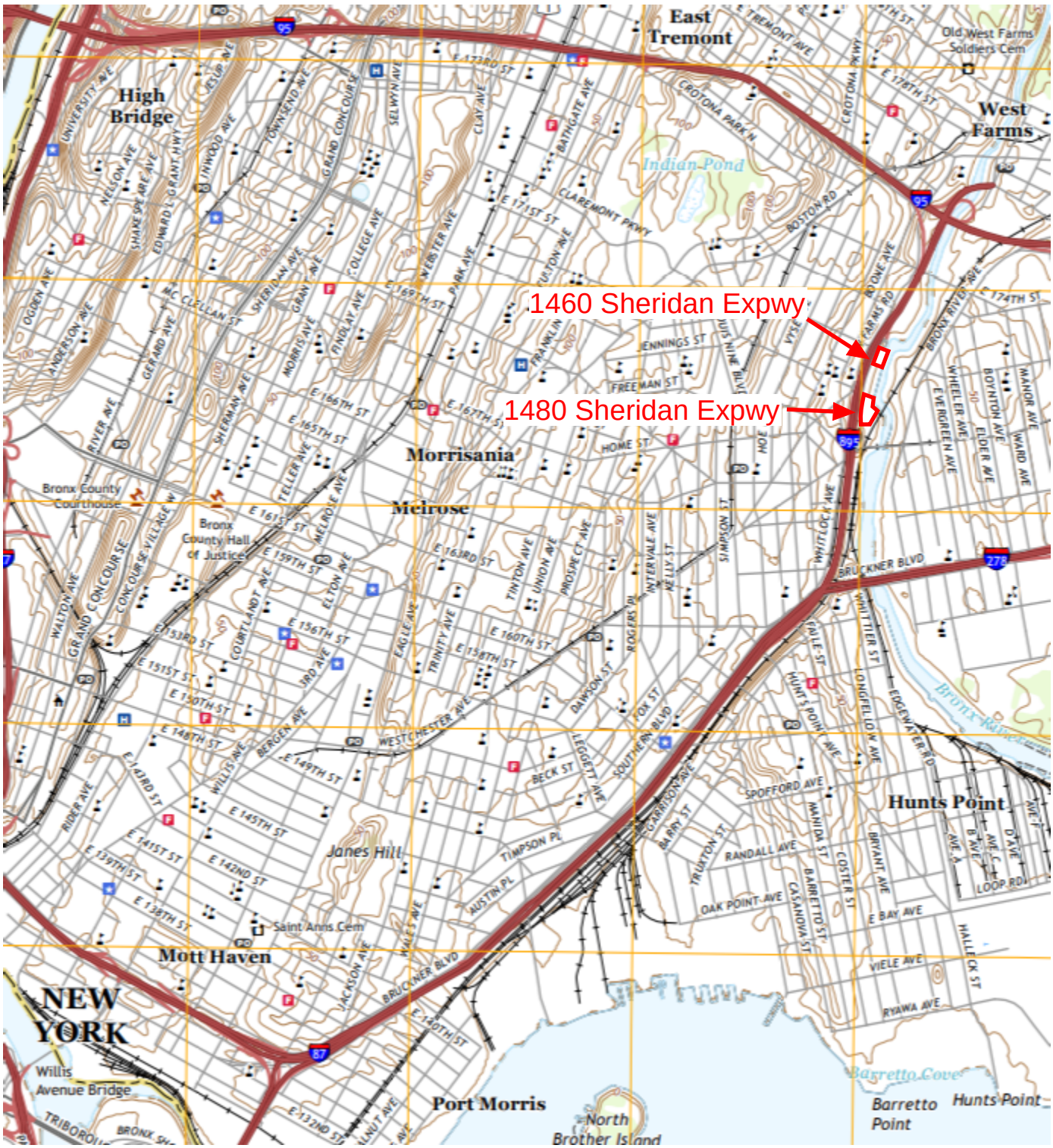
Attachments

Figure 1 – Site Location
Figure 2 – Boring and Well Location Map – 1460 Sheridan
Figure 3 – Boring and Well Location Map – 1480 Sheridan

Table 1a – Soil Analytical Summary – VOCs – 1460 Sheridan
Table 1b – Soil Analytical Summary – VOCs – 1480 Sheridan
Table 2a – Soil Analytical Summary – SVOCs – 1460 Sheridan
Table 2b – Soil Analytical Summary – SVOCs – 1480 Sheridan
Table 3 – Soil Analytical Summary – PCBs – 1460 Sheridan
Table 4a – Soil Analytical Summary – Metals – 1460 Sheridan
Table 4b – Soil Analytical Summary – Metals – 1480 Sheridan
Table 5a – Groundwater Analytical Summary – 1460 Sheridan
Table 5b – Groundwater Analytical Summary – 1480 Sheridan

Attachment 1a – Groundwater Sampling Logs – 1460 Sheridan
Attachment 1b – Groundwater Sampling Logs – 1480 Sheridan
Attachment 2 – Analytical Data Packages

FIGURES



LEGEND

Scale : 1:24,000

Source: USGS 7.5-minute Topographic Map, Central Park, NY, NJ, 2019

eecc

1 EMERY AVE, UNIT 2
RANDOLPH, NJ 07869

FIGURE 1

Topographic Map

1460 and 1480 Sheridan Expressway
Bronx, NY

PROJECT			DRAFTED BY:	
Sheridan Expressway			AN	
REV#		DATE: 11/18/2021	CHK BY	NK



LEGEND

- Approximate Property Boundary
- B-18 — Boring Location and ID
- B-20 / MW-5 — Boring and Well Location and IDs

Figure not to scale

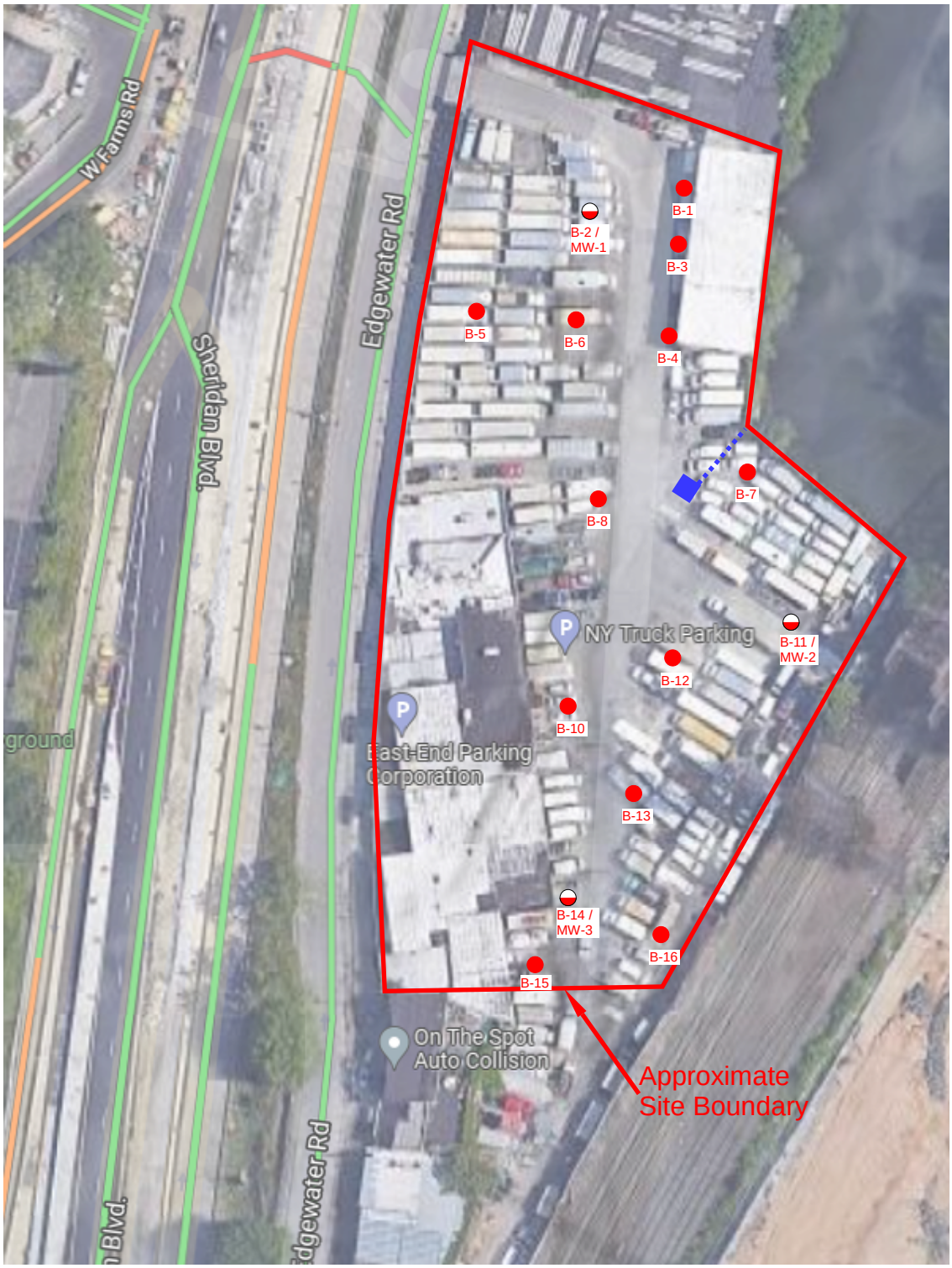
1 EMERY AVE, UNIT 2
RANDOLPH, NJ 07869

FIGURE 2

Boring and Well Location Map

1460 Sheridan Expressway
Bronx, NY

PROJECT		DRAFTED BY:	
Sheridan Expressway			AN
REV#		DATE: 11/18/2021	CHK BY NK



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LEGEND

- Approximate Property Boundary
- B-1 — Boring Location and ID
- B-2 / MW-2 — Boring and Well Location and IDs
- Approximate Location of UST
- Sub-grade UST Vent Piping

Figure not to scale

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FIGURE 3

Boring and Well Location Map

1480 Sheridan Expressway
Bronx, NY

PROJECT		DRAFTED BY:	
Sheridan Expressway		AN	
REV#	DATE: 11/18/2021	CHK BY	NK

TABLES

Table 1a -Soil Analytical Summary - Volatile Organics
Regulatory Exceedances Only
1460 Sheridan Expressway, Bronx, NY
Phase II Investigation

LOCATION				B-20 (11-12)		B-22 (1-2)		B-22 (14-15)		B-24 (1-2)		B-24 (9-10)	
SAMPLING DATE				10/14/2021		10/13/2021		10/13/2021		10/13/2021		10/13/2021	
LAB SAMPLE ID				L2156166-43		L2156166-32		L2156166-33		L2156166-36		L2156166-37	
SAMPLE TYPE				SOIL		SOIL		SOIL		SOIL		SOIL	
	RES-C	RES-RR	UNRES	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by EPA 5035													
1,1,1-Trichloroethane	500	100	0.68	0.00062	U	0.00066	U	0.00078	U	0.00066	U	0.00068	U
1,1-Dichloroethane	240	26	0.27	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
1,1-Dichloroethene	500	100	0.33	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
1,2,4-Trimethylbenzene	190	52	3.6	0.0025	U	0.0026	U	0.0031	U	0.0026	U	0.0027	U
1,2-Dichlorobenzene	500	100	1.1	0.0025	U	0.0026	U	0.0031	U	0.0026	U	0.0027	U
1,2-Dichloroethane	30	3.1	0.02	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
1,3,5-Trimethylbenzene	190	52	8.4	0.0025	U	0.0026	U	0.0031	U	0.0026	U	0.0027	U
1,3-Dichlorobenzene	280	49	2.4	0.0025	U	0.0026	U	0.0031	U	0.0026	U	0.0027	U
1,4-Dichlorobenzene	130	13	1.8	0.0025	U	0.0026	U	0.0031	U	0.0026	U	0.0027	U
1,4-Dioxane	130	13	0.1	0.1	U	0.1	U	0.12	U	0.1	U	0.11	U
2-Butanone	500	100	0.12	0.008	J	0.013	U	0.016		0.013	U	0.014	U
Acetone	500	100	0.05	0.039		0.013	U	**0.11**		0.013	U	0.014	U
Benzene	44	4.8	0.06	0.00062	U	0.00066	U	0.00078	U	0.00066	U	0.00068	U
Carbon tetrachloride	22	2.4	0.76	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
Chloroform	350	49	0.37	0.00031	J	0.00066	J	0.0023	U	0.00041	J	0.00042	J
cis-1,2-Dichloroethene	500	100	0.25	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
Ethylbenzene	390	41	1	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
Methyl tert butyl ether	500	100	0.93	0.0025	U	0.0026	U	0.0031	U	0.0026	U	0.0027	U
Methylene chloride	500	100	0.05	0.0062	U	0.0066	U	0.0078	U	0.0066	U	0.0068	U
n-Butylbenzene	500	100	12	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
n-Propylbenzene	500	100	3.9	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
Naphthalene	500	100	12	0.005	U	0.0053	U	0.0062	U	0.0052	U	0.0054	U
Toluene	500	100	0.7	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
trans-1,2-Dichloroethene	500	100	0.19	0.0019	U	0.002	U	0.0023	U	0.002	U	0.002	U
Trichloroethene	200	21	0.47	0.00062	U	0.00066	U	0.00078	U	0.00066	U	0.00068	U
Vinyl chloride	13	0.9	0.02	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
Xylenes, Total	500	100	0.26	0.0012	U	0.0013	U	0.0016	U	0.0013	U	0.0014	U
Volatile Organics by EPA 5035 High													
1,2-Dichloroethane	30	3.1	0.02	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	130	13	0.1	-	-	-	-	-	-	-	-	-	-
2-Butanone	500	100	0.12	-	-	-	-	-	-	-	-	-	-
Acetone	500	100	0.05	-	-	-	-	-	-	-	-	-	-
Benzene	44	4.8	0.06	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	390	41	1	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	500	100	0.93	-	-	-	-	-	-	-	-	-	-
Methylene chloride	500	100	0.05	-	-	-	-	-		-	-	-	-
Toluene	500	100	0.7	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	13	0.9	0.02	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	500	100	0.26	-	-	-	-	-	-	-	-	-	-

NOTES
All results reported in milligrams per kilogram (mg/kg)
B-1 - Sample ID
(4.5-5) - Sample Depth in feet below grade
NY-RESC: New York NYCRR Part 375 Commercial Criteria
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria
NY-UNRES: New York NYCRR Part 375 New York Unrestricted use
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound
Exceeds RES-C
Exceeds RES-RR
Exceeds UNRES
Method Dection Limit exceeds UNRES

Table 1b - Soil Analytical Summary - Volatile Organics
Regulatory Exceedances Only
1480 Sheridan Expressway, Bronx, NY
Phase II Investigation

LOCATION				B-1 (0.5-1)		B-1 (4.5-5)		B-2 (2.5-3.5)		B-2 (5-6)		B-3 (3-4)		B-3 (9-10)		B-5 (0.5-1)		B-5 (4.5-5.5)		B-7 (4-5)		B-8 (4.5-5.5)		B-8 (7-8)		B-10 (0.5-2)		B-11 (1-2)		B-13 (8-9)		B-14 (8-9)		B-15 (4.5-5.5)		B-16 (1-2)	
SAMPLING DATE				10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/13/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021	
LAB SAMPLE ID				L2156166-02		L2156166-01		L2156166-03		L2156166-04		L2156166-05		L2156166-06		L2156166-08		L2156166-09		L2156166-15		L2156166-13		L2156166-14		L2156166-30		L2156166-16		L2156166-21		L2156166-22		L2156166-25		L2156166-26	
SAMPLE TYPE				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	RES-C	RES-RR	UNRES	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by EPA 5035																																					
1,1,1-Trichloroethane	500	100	0.68	0.00056	U	0.00064	U	0.96	U	0.17	U	0.00097	U	0.1	U	0.00067	U	0.00064	U	0.00087	U	0.00092	U	0.00092	U	0.00075	U	0.00084	U	0.00078	U	0.0017	U	0.0013	U	0.00064	U
1,1-Dichloroethane	240	26	0.27	0.0011	U	0.0013	U	1.9	U	0.34	U	0.0019	U	0.2	U	0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.0015	U	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
1,1-Dichloroethene	500	100	0.33	0.0011	U	0.0013	U	1.9	U	0.34	U	0.0019	U	0.2	U	0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.0015	U	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
1,2,4-Trimethylbenzene	190	52	3.6	0.001	J	0.0026	U	**760**	E	**170**	E	0.0039	U	**83**	E	0.0027	U	0.0026	U	0.0035	U	0.0037	U	0.0037	U	0.003	U	0.0034	U	0.0031	U	0.0069	U	0.0051	U	0.0026	U
1,2-Dichlorobenzene	500	100	1.1	0.0022	U	0.0026	U	3.8	U	0.69	U	0.0039	U	0.4	U	0.0027	U	0.0026	U	0.0035	U	0.0037	U	0.0037	U	0.003	U	0.0034	U	0.0031	U	0.0069	U	0.0051	U	0.0026	U
1,2-Dichloroethane	30	3.1	0.02	0.0011	U	0.0013	U	1.9	U	0.34	U	0.0019	U	0.2	U	0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.0015	U	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
1,3,5-Trimethylbenzene	190	52	8.4	0.00045	J	0.0026	U	**240**		**56**		0.0039	U	**26**		0.0027	U	0.0026	U	0.0035	U	0.0037	U	0.0037	U	0.003	U	0.0034	U	0.0031	U	0.0069	U	0.0051	U	0.0026	U
1,3-Dichlorobenzene	280	49	2.4	0.0022	U	0.0026	U	3.8	U	0.69	U	0.0039	U	0.4	U	0.0027	U	0.0026	U	0.0035	U	0.0037	U	0.0037	U	0.003	U	0.0034	U	0.0031	U	0.0069	U	0.0051	U	0.0026	U
1,4-Dichlorobenzene	130	13	1.8	0.0022	U	0.0026	U	3.8	U	0.69	U	0.0039	U	0.4	U	0.0027	U	0.0026	U	0.0035	U	0.0037	U	0.0037	U	0.003	U	0.0034	U	0.0031	U	0.0069	U	0.0051	U	0.0026	U
1,4-Dioxane	130	13	0.1	0.089	U	0.1	U	**150**	U	28	U	0.16	U	16	U	0.11	U	0.1	U	0.14	U	0.15	U	0.15	U	0.12	U	0.14	U	0.12	U	0.28	U	0.2	U	0.1	U
2-Butanone	500	100	0.12	0.008	J	0.0065	J	19	U	3.4	U	0.0053	J	2	U	0.013	U	0.0069	J	0.017	U	0.018	U	0.018	U	0.015	U	0.017	U	0.0055	J	0.048		0.026	U	0.013	U
Acetone	500	100	0.05	0.039		0.033		19	U	3.4	U	**0.052**		2	U	0.013	U	**0.064**		0.017	U	0.018	U	0.01	J	0.026		0.017	U	**0.051**		**0.29**		0.026	U	0.013	U
Benzene	44	4.8	0.06	0.01		0.00064	U	**46**		**4.6**		0.0049		**0.96**		0.00067	U	0.00076		0.0012		0.00092	U	0.00092	U	0.0023		0.00084	U	0.00078	U	0.0017	U	0.0013	U	0.00064	U
Carbon tetrachloride	22	2.4	0.76	0.0011	U	0.0013	U	1.9	U	0.34	U	0.0019	U	0.2	U	0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.0015	U	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
Chloroform	350	49	0.37	0.0017	U	0.0019	U	2.9	U	0.52	U	0.0029	U	0.3	U	0.002	U	0.0019	U	0.00037	J	0.0028	U	0.0028	U	0.0022	U	0.0025	U	0.0023	U	0.0052	U	0.0038	U	0.0019	U
cis-1,2-Dichloroethene	500	100	0.25	0.0011	U	0.0013	U	1.9	U	0.34	U	0.0019	U	0.2	U	0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.0015	U	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
Ethylbenzene	390	41	1	0.0038		0.0013	U	**230**		**60**		0.00053	J	**27**		0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.00031	J	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
Methyl tert butyl ether	500	100	0.93	0.0015	J	0.0018	J	**11**		**3.1**		0.0026	J	**1.5**		0.0027	U	0.00096	J	0.001	J	0.0037	U	0.0037	U	0.003	U	0.0034	U	0.00034	J	0.0067	J	0.0051	U	0.0026	U
Methylene chloride	500	100	0.05	0.0056	U	0.0064	U	9.6	U	1.7	U	0.0097	U	1	U	0.0067	U	0.0064	U	0.0087	U	0.0092	U	0.0092	U	0.0075	U	0.0084	U	0.0078	U	0.017	U	0.013	U	0.0064	U
n-Butylbenzene	500	100	12	0.00028	J	0.0013	U	**28**		7		0.0019	U	3.6		0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.0015	U	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
n-Propylbenzene	500	100	3.9	0.00035	J	0.0013	U	**94**		**26**		0.0019	U	**13**		0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.0015	U	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
Naphthalene	500	100	12	0.0045	U	0.0051	U	**86**		**20**		0.0078	U	9.9		0.0054	U	0.0052	U	0.007	U	0.0074	U	0.0074	U	0.006	U	0.0068	U	0.0062	U	0.014	U	0.01	U	0.0051	U
Toluene	500	100	0.7	0.0023		0.0013	U	**320**		**3.9**		0.0018	J	0.2	U	0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.0015	U	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
trans-1,2-Dichloroethene	500	100	0.19	0.0017	U	0.0019	U	2.9	U	0.52	U	0.0014	J	0.3	U	0.002	U	0.0019	U	0.0026	U	0.0028	U	0.0028	U	0.0022	U	0.0025	U	0.0023	U	0.0052	U	0.0038	U	0.0019	U
Trichloroethene	200	21	0.47	0.00056	U	0.00064	U	0.96	U	0.17	U	0.00097	U	0.1	U	0.00067	U	0.00064	U	0.00087	U	0.00092	U	0.00092	U	0.00075	U	0.00084	U	0.00078	U	0.0017	U	0.0013	U	0.00064	U
Vinyl chloride	13	0.9	0.02	0.0011	U	0.0013	U	1.9	U	0.34	U	0.0019	U	0.2	U	0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.0015	U	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
Xylenes, Total	500	100	0.26	0.005	J	0.0013	U	**1600**		**300**		0.0018	J	**110**	J	0.0013	U	0.0013	U	0.0017	U	0.0018	U	0.0018	U	0.00067	J	0.0017	U	0.0016	U	0.0034	U	0.0026	U	0.0013	U
Volatile Organics by EPA 5035 High																																					
1,2-Dichloroethane	30	3.1	0.02	0.064	U	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-	-	-	-	-	-	-	0.082	U	-	-	-	-	-	-	-	-	-	-
1,4-Dioxane	130	13	0.1	5.1	U	-	-	-	-	-	-	7.3	U	-	-	-	-	-	-	-	-	-	-	-	-	6.5	U	-	-	-	-	-	-	-	-	-	-
2-Butanone	500	100	0.12	0.64	U	-	-	-	-	-	-	0.92	U	-	-	-	-	-	-	-	-	-	-	-	-	**0.36**	J	-	-	-	-	-	-	-	-	-	-
Acetone	500	100	0.05	0.64	U	-	-	-	-	-	-	0.92	U	-	-	-	-	-	-	-	-	-	-	-	-	0.82	U	-	-	-	-	-	-	-	-	-	-
Benzene	44	4.8	0.06	**1.7**		-	-	-	-	-	-	**2.3**		-	-	-	-	-	-	-	-	-	-	-	-	**1.6**		-	-	-	-	-	-	-	-	-	-
Ethylbenzene	390	41	1	0.58		-	-	-	-	-	-	**1.5**		-	-	-	-	-	-	-	-	-	-	-	-	0.88		-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether	500	100	0.93	0.33		-	-	-	-	-	-	**1**		-	-	-	-	-	-	-	-	-	-	-	-	0.16	U	-	-	-	-	-	-	-	-	-	-
Methylene chloride	500	100	0.05	0.32	U	-	-	-	-	-	-	0.46	U	-	-	-	-	-	-	-	-	-	-	-	-	0.41	U	-	-	-	-	-	-	-	-	-	-
Toluene	500	100	0.7	0.63		-	-	-	-	-	-	**2**		-	-	-	-	-	-	-	-	-	-	-	-	**1.5**		-	-	-	-	-	-	-	-	-	-
Vinyl chloride	13	0.9	0.02	0.064	U	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-	-	-	-	-	-	-	0.082	U	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	500	100	0.26	**1.8**		-	-	-	-	-	-	**4.5**		-	-	-	-	-	-	-	-	-	-	-	-	**2.4**		-	-	-	-	-	-	-	-	-	-

NOTES
All results reported in milligrams per kilogram (mg/kg)
B-1 - Sample ID
(4.5-5) - Sample Depth in feet below grade
NY-RESC: New York NYCRR Part 375 Commercial Criteria
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria
NY-UNRES: New York NYCRR Part 375 New York Unrestricted use
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound
Exceeds RES-C
Exceeds RES-RR
Exceeds UNRES
Method Dection Limit exceeds UNRES

Table 2a - Soil Analytical Summary - Semi-Volatile Organics
Regulatory Exceedances Only
1460 Sheridan Expressway, Bronx, NY
Phase II Investigation

LOCATION				B-22 (1-2)		B-22 (14-15)		B-24 (1-2)	
SAMPLING DATE				10/13/2021		10/13/2021		10/13/2021	
LAB SAMPLE ID				L2156166-32		L2156166-33		L2156166-36	
SAMPLE TYPE				SOIL		SOIL		SOIL	
	RES-C	RES-RR	UNRES	Results	Qual	Results	Qual	Results	Qual
Semivolatile Organics by GC/MS									
1,2-Dichlorobenzene	500	100	1.1	0.13	J	0.24	U	1.9	U
1,4-Dichlorobenzene	130	13	1.8	0.042	J	0.24	U	1.9	U
1,4-Dioxane	130	13	0.1	0.027	U	0.036	U	0.28	U
2-Methylphenol	500	100	0.33	0.18	U	0.24	U	1.9	U
3-Methylphenol/4-Methylphenol	500	100	0.33	0.034	J	**0.49**		2.7	U
Benzo(a)anthracene	5.6	1	1	**2.6**		0.14	U	**37**	
Benzo(a)pyrene	1	1	1	**2.8**		0.19	U	**31**	
Benzo(b)fluoranthene	5.6	1	1	**3.8**		0.14	U	**41**	
Benzo(k)fluoranthene	56	3.9	0.8	**0.91**		0.14	U	**12**	
Chrysene	56	3.9	1	**2.5**		0.14	U	**28**	
Dibenzo(a,h)anthracene	0.56	0.33	0.33	**0.49**		0.14	U	**4.5**	
Hexachlorobenzene	6	1.2	0.33	0.11	U	0.14	U	1.1	U
Indeno(1,2,3-cd)pyrene	5.6	0.5	0.5	**2.1**		0.19	U	**22**	
Naphthalene	500	100	12	0.18		0.24	U	5.8	
Pentachlorophenol	6.7	6.7	0.8	0.14	U	0.19	U	1.5	U
Phenol	500	100	0.33	0.18	U	0.24	U	1.9	U

NOTES
All results reported in milligrams per kilogram (mg/kg)
B-1 - Sample ID
(4.5-5) - Sample Depth in feet below grade
NY-RESC: New York NYCRR Part 375 Commercial Criteria
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria
NY-UNRES: New York NYCRR Part 375 New York Unrestricted use
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound
Exceeds RES-C
Exceeds RES-RR
Exceeds UNRES
Method Dection Limit exceeds UNRES

Table 2b - Soil Analytical Summary - Semi-Volatile Organics
Regulatory Exceedances Only
1480 Sheridan Expressway, Bronx, NY
Phase II Investigation

LOCATION				B-1 (4.5-5)		B-2 (2.5-3.5)		B-3 (9-10)		B-5 (4.5-5.5)		B-6 (4-5)		B-7 (1-2)		B-8 (4.5-5.5)		B-8 (7-8)		B-15 (4.5-5.5)	
SAMPLING DATE				10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021	
LAB SAMPLE ID				L2156166-01		L2156166-03		L2156166-06		L2156166-09		L2156166-11		L2156166-12		L2156166-13		L2156166-14		L2156166-25	
SAMPLE TYPE				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	RES-C	RES-RR	UNRES	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Semivolatile Organics by GC/MS																					
1,2-Dichlorobenzene	500	100	1.1	0.6	U	0.56	U	0.63	U	0.55	U	0.6	U	0.18	U	0.57	U	0.64	U	0.26	U
1,4-Dichlorobenzene	130	13	1.8	0.6	U	0.56	U	0.63	U	0.55	U	0.6	U	0.18	U	0.57	U	0.64	U	0.26	U
1,4-Dioxane	130	13	0.1	0.09	U	0.085	U	0.094	U	0.082	U	0.09	U	0.028	U	0.086	U	0.096	U	0.038	U
2-Methylphenol	500	100	0.33	0.6	U	**2.3**		0.63	U	0.55	U	0.6	U	0.18	U	0.57	U	0.64	U	0.26	U
3-Methylphenol/4-Methylphenol	500	100	0.33	0.86	U	**4**		0.9	U	0.79	U	0.86	U	0.049	J	0.83	U	0.92	U	0.37	U
Benzo(a)anthracene	5.6	1	1	0.36	U	0.1	J	0.38	U	0.33	U	0.36	U	**4.7**		**6.2**		**4.1**		0.27	
Benzo(a)pyrene	1	1	1	0.48	U	0.45	U	0.5	U	0.44	U	0.48	U	**4**		**5.5**		**3.4**		0.36	
Benzo(b)fluoranthene	5.6	1	1	0.36	U	0.1	J	0.38	U	0.33	U	0.36	U	**5.1**		**7.1**		**4.1**		0.38	
Benzo(k)fluoranthene	56	3.9	0.8	0.36	U	0.34	U	0.38	U	0.33	U	0.36	U	**1.5**		**2.1**		**1.2**		0.1	J
Chrysene	56	3.9	1	0.36	U	0.28	J	0.38	U	0.33	U	0.36	U	**3.6**		**5.3**		**3.8**		0.28	
Dibenzo(a,h)anthracene	0.56	0.33	0.33	0.36	U	0.34	U	0.38	U	0.33	U	0.36	U	**0.96**		**0.96**		**0.52**		0.049	J
Hexachlorobenzene	6	1.2	0.33	0.36	U	0.34	U	0.38	U	0.33	U	0.36	U	0.11	U	0.34	U	0.38	U	0.15	U
Indeno(1,2,3-cd)pyrene	5.6	0.5	0.5	0.48	U	0.45	U	0.5	U	0.44	U	0.48	U	**3.1**		**3.9**		**2.1**		0.22	
Naphthalene	500	100	12	0.6	U	**35**		3.6		0.55	U	0.6	U	0.58		0.98		0.3	J	0.3	
Pentachlorophenol	6.7	6.7	0.8	0.48	U	0.45	U	0.5	U	0.44	U	0.48	U	0.15	U	0.46	U	0.51	U	0.2	U
Phenol	500	100	0.33	0.6	U	**1.3**		0.63	U	0.55	U	0.6	U	0.18	U	0.57	U	0.64	U	0.26	U

NOTES
All results reported in milligrams per kilogram (mg/kg)
B-1 - Sample ID
(4.5-5) - Sample Depth in feet below grade
NY-RESC: New York NYCRR Part 375 Commercial Criteria
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria
NY-UNRES: New York NYCRR Part 375 New York Unrestricted use
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound
Exceeds RES-C
Exceeds RES-RR
Exceeds UNRES
Method Dection Limit exceeds UNRES

Table 3 - Soil Analytical Summary - Polychlorinated Biphenols
Regulatory Exceedances Only
1480 Sheridan Expressway, Bronx, NY
Phase II Investigation

LOCATION				B-1 (0.5-1)		B-3 (3-4)		B-7 (1-2)		B-10 (0.5-2)	
SAMPLING DATE				10/12/2021		10/12/2021		10/12/2021		10/13/2021	
LAB SAMPLE ID				L2156166-02		L2156166-05		L2156166-12		L2156166-30	
SAMPLE TYPE				SOIL		SOIL		SOIL		SOIL	
	RES-C	RES-RR	UNRES	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Polychlorinated Biphenyls by GC											
Aroclor 1016	1	1	0.1	0.0371	U	0.0396	U	0.0364	U	0.703	U
Aroclor 1221	1	1	0.1	0.0371	U	0.0396	U	0.0364	U	0.703	U
Aroclor 1232	1	1	0.1	0.0371	U	0.0396	U	0.0364	U	0.703	U
Aroclor 1242	1	1	0.1	0.0371	U	0.0396	U	0.0364	U	0.703	U
Aroclor 1248	1	1	0.1	0.0371	U	0.0396	U	0.0364	U	0.703	U
Aroclor 1254	1	1	0.1	**0.159**		0.0736		**0.122**		**11.6**	
Aroclor 1260	1	1	0.1	0.0371	U	0.0374	J	**0.138**		0.703	U
Aroclor 1262	1	1	0.1	0.0371	U	0.0396	U	0.0364	U	0.703	U
Aroclor 1268	1	1	0.1	0.0371	U	0.0208	J	0.0364	U	0.703	U
PCBs, Total	1	1	0.1	**0.159**		**0.132**	J	**0.26**		**11.6**	

NOTES
All results reported in milligrams per kilogram (mg/kg)
B-1 - Sample ID
(4.5-5) - Sample Depth in feet below grade
NY-RESC: New York NYCRR Part 375 Commercial Criteria
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria
NY-UNRES: New York NYCRR Part 375 New York Unrestricted use
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound
Exceeds RES-C
Exceeds RES-RR
Exceeds UNRES
Method Dection Limit exceeds UNRES

Table 4a - Soil Analytical Summary - Metals
Regulatory Exceedances Only
1460 Sheridan Expressway, Bronx, NY
Phase II Investigation

LOCATION				B-17 (8-9)		B-18 (8-9)		B-22 (1-2)		B-24 (1-2)	
SAMPLING DATE				10/14/2021		10/14/2021		10/13/2021		10/13/2021	
LAB SAMPLE ID				L2156166-41		L2156166-42		L2156166-32		L2156166-36	
SAMPLE TYPE				SOIL		SOIL		SOIL		SOIL	
	RES-C	RES-RR	UNRES	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Total Metals											
Arsenic, Total	16	16	13	3.78		0.339	J	**22.8**		6.72	
Cadmium, Total	9.3	4.3	2.5	1.04		0.462	J	**10.1**		**21.6**	
Copper, Total	270	270	50	**60.7**		**175**		**229**		**270**	
Lead, Total	1000	400	63	47		41.8		**2620**		**1700**	
Mercury, Total	2.8	0.81	0.18	0.09	U	0.149		**0.237**		0.17	
Selenium, Total	1500	180	3.9	1.78	U	0.24	J	1.86		**4.49**	
Zinc, Total	10000	10000	109	**124**		94.3		**384**		**744**	

NOTES
All results reported in milligrams per kilogram (mg/kg)
B-1 - Sample ID
(4.5-5) - Sample Depth in feet below grade
NY-RESC: New York NYCRR Part 375 Commercial Criteria
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria
NY-UNRES: New York NYCRR Part 375 New York Unrestricted use
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound
Exceeds RES-C
Exceeds RES-RR
Exceeds UNRES
Method Dection Limit exceeds UNRES

Table 4b - Soil Analytical Summary - Metals
Regulatory Exceedances Only
1480 Sheridan Expressway, Bronx, NY
Phase II Investigation

LOCATION				B-1 (0.5-1)		B-1 (4.5-5)		B-2 (2.5-3.5)		B-3 (3-4)		B-3 (9-10)		B-6 (4-5)		B-7 (1-2)		B-7 (4-5)		B-8 (4.5-5.5)		B-8 (7-8)		B-10 (0.5-2)		B-11 (1-2)		B-13 (8-9)		B-14 (8-9)		B-15 (4.5-5.5)	
SAMPLING DATE				10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021		10/13/2021		10/12/2021		10/12/2021		10/12/2021		10/12/2021	
LAB SAMPLE ID				L2156166-02		L2156166-01		L2156166-03		L2156166-05		L2156166-06		L2156166-11		L2156166-12		L2156166-15		L2156166-13		L2156166-14		L2156166-30		L2156166-16		L2156166-21		L2156166-22		L2156166-25	
SAMPLE TYPE				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	RES-C	RES-RR	UNRES	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Total Metals																																	
Arsenic, Total	16	16	13	5.45		3.78		3.21		**22.7**		**19.2**		**56.8**		8.14		9.18		**14.8**		8		7.03		5.75		1.94		8.78		**26.6**	
Cadmium, Total	9.3	4.3	2.5	0.798	J	0.951	U	0.932	U	0.895	U	0.959	U	0.992	U	0.522	J	1.66		0.123	J	0.538	J	1.54		0.891	U	1.02	U	1.44	U	1.18	U
Copper, Total	270	270	50	**227**		19.4		**50.1**		**60.7**		39.5		**185**		**78.2**		**221**		**118**		**55.2**		**171**		35.2		5.37		**85.8**		**94**	
Lead, Total	1000	400	63	**241**		**278**		37		**359**		9.95		**408**		**645**		**807**		**538**		**285**		**193**		**96.7**		8.77		**117**		**213**	
Mercury, Total	2.8	0.81	0.18	0.098		0.065	J	0.075	U	**0.185**		0.081	U	0.097		**1.72**		**1.09**		**0.298**		0.147		0.149		0.157		0.082	U	**2.21**		**2.14**	
Selenium, Total	1500	180	3.9	0.302	J	0.723	J	1.34	J	2.41		2.88		0.427	J	0.331	J	0.709	J	1.27	J	1.43	J	0.963	J	0.437	J	0.51	J	1.01	J	1.37	J
Zinc, Total	10000	10000	109	**191**		56.8		65.6		**148**		64.6		68.9		**730**		**1560**		**319**		**526**		**718**		**154**		**135**		**182**		**184**	

NOTES
All results reported in milligrams per kilogram (mg/kg)
B-1 - Sample ID
(4.5-5) - Sample Depth in feet below grade
NY-RESC: New York NYCRR Part 375 Commercial Criteria
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria
NY-UNRES: New York NYCRR Part 375 New York Unrestricted use
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound
Exceeds RES-C
Exceeds RES-RR
Exceeds UNRES
Method Dection Limit exceeds UNRES

Table 5a - Groundwater Analytical Summary
Regulatory Exceedances Only
1460 Sheridan Expressway, Bronx, NY
Phase II Investigation

LOCATION		MW-4		MW-5	
SAMPLING DATE		10/28/2021		10/28/2021	
LAB SAMPLE ID		L2159421-04		L2159421-05	
SAMPLE TYPE		WATER		WATER	
	NY-AWQS	Results	RL	Results	RL
Perfluorinated Alkyl Acids by Isotope Dilution					
Perfluorobutanesulfonic Acid (PFBS)	none	--		0.00431	0.00183
Perfluorobutanoic Acid (PFBA)	none	--		0.00658	0.00183
Perfluorodecanoic Acid (PFDA)	none	--		0.000821J	0.00183
Perfluoroheptanoic Acid (PFHpA)	none	--		0.00488	0.00183
Perfluorohexanesulfonic Acid (PFHxS)	none	--		0.00189	0.00183
Perfluorohexanoic Acid (PFHxA)	none	--		0.00688	0.00183
Perfluorononanoic Acid (PFNA)	none	--		0.00133J	0.00183
Perfluorooctanesulfonic Acid (PFOS)	none	--		0.0187	0.00183
Perfluorooctanoic Acid (PFOA)	none	--		0.0143	0.00183
Perfluoropentanoic Acid (PFPeA)	none	--		0.00845	0.00183
Perfluoroundecanoic Acid (PFUnA)	none	--		0.000268JF	0.00183
PFOA/PFOS, Total	none	--		0.033	0.00183
Semivolatile Organics by GC/MS					
1,2,4,5-Tetrachlorobenzene	5	ND	10	ND	10
2,4-Dichlorophenol	1	ND	5	ND	5
2,4-Dinitrophenol	10	ND	20	ND	20
Bis(2-chloroethyl)ether	1	ND	2	ND	2
Hexachlorocyclopentadiene	5	ND	20	ND	20
Nitrobenzene	0.4	ND	2	ND	2
Phenol	1	ND	5	ND	5
Semivolatile Organics by GC/MS-SIM					
Benzo(a)anthracene	0.002	0.29	0.1	0.03J	0.1
Benzo(a)pyrene	0	0.25	0.1	ND	0.1
Benzo(b)fluoranthene	0.002	0.4	0.1	ND	0.1
Benzo(k)fluoranthene	0.002	0.14	0.1	ND	0.1
Chrysene	0.002	0.31	0.1	ND	0.1
Hexachlorobenzene	0.04	ND	0.8	ND	0.8
Hexachlorobutadiene	0.5	ND	0.5	ND	0.5
Indeno(1,2,3-cd)pyrene	0.002	0.24	0.1	ND	0.1
Total Metals					
Antimony, Total	3	5.05	4	1J	4
Arsenic, Total	25	26.47	0.5	11.39	0.5
Beryllium, Total	3	3.45	0.5	3.56	0.5
Cadmium, Total	5	24.27	0.2	4.19	0.2
Chromium, Total	50	961.2	1	105.6	1
Copper, Total	200	685.8	1	302.4	1
Iron, Total	300	182000	50	83700	50
Lead, Total	25	2617	1	435.5	1
Magnesium, Total	35000	72700	70	37300	70
Manganese, Total	300	4164	1	2734	1
Nickel, Total	100	541.6	2	70.67	2
Selenium, Total	10	14.1	5	10.3	5
Sodium, Total	20000	258000	100	127000	100
Thallium, Total	0.5	1.52J	2	0.48J	2
Volatile Organics by GC/MS					
1,1,2-Trichloroethane	1	ND	1.5	ND	1.5
1,2,3-Trichloropropane	0.04	ND	2.5	ND	2.5
1,2-Dibromo-3-chloropropane	0.04	ND	2.5	ND	2.5
1,2-Dibromoethane	0.0006	ND	2	ND	2
1,2-Dichloropropane	1	ND	1	ND	1
Acrylonitrile	5	ND	5	ND	5
cis-1,3-Dichloropropene	0.4	ND	0.5	ND	0.5
Dibromomethane	5	ND	5	ND	5
Dichlorodifluoromethane	5	ND	5	ND	5
Hexachlorobutadiene	0.5	ND	2.5	ND	2.5
trans-1,3-Dichloropropene	0.4	ND	0.5	ND	0.5

NOTES
All results reported in micrograms per liter (ug/L)
NY-AWQS - New York TOGS 1.1.1 Ambient Water Quality Standards criteria
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
Exceeds AWQS TOGS 1.1.1
Method Dection Limit exceeds NY-UNRES
-- - Not analyzed

Table 5b - Groundwater Analytical Summary
Regulatory Exceedances Only
1480 Sheridan Expressway, Bronx, NY
Phase II Investigation

LOCATION		MW-1		MW-2		MW-3	
SAMPLING DATE		10/28/2021		10/28/2021		10/28/2021	
LAB SAMPLE ID		L2159421-01		L2159421-02		L2159421-03	
SAMPLE TYPE		WATER		WATER		WATER	
	NY-AWQS	Results	RL	Results	RL	Results	RL
Perfluorinated Alkyl Acids by Isotope Dilution							
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	none	0.00542	0.00183	--		--	
Perfluorobutanoic Acid (PFBA)	none	0.0398G	0.00183	--		--	
Perfluorodecanoic Acid (PFDA)	none	0.00134JF	0.00183	--		--	
Perfluoroheptanoic Acid (PFHpA)	none	0.00168J	0.00183	--		--	
Perfluorohexanesulfonic Acid (PFHxS)	none	0.00282	0.00183	--		--	
Perfluorohexanoic Acid (PFHxA)	none	0.00322	0.00183	--		--	
Perfluorononanoic Acid (PFNA)	none	0.00292	0.00183	--		--	
Perfluorooctanesulfonic Acid (PFOS)	none	0.027	0.00183	--		--	
Perfluorooctanoic Acid (PFOA)	none	0.015	0.00183	--		--	
PFOA/PFOS, Total	none	0.042	0.00183	--		--	
Semivolatile Organics by GC/MS							
1,2,4,5-Tetrachlorobenzene	5	ND	10	ND	10	ND	10
2,4-Dichlorophenol	1	ND	5	ND	5	ND	5
2,4-Dinitrophenol	10	ND	20	ND	20	ND	20
Bis(2-chloroethyl)ether	1	ND	2	ND	2	ND	2
Hexachlorocyclopentadiene	5	ND	20	ND	20	ND	20
Nitrobenzene	0.4	ND	2	ND	2	ND	2
Phenol	1	30	5	ND	5	ND	5
Semivolatile Organics by GC/MS-SIM							
Benzo(a)anthracene	0.002	0.05J	0.2	0.02J	0.1	0.03J	0.1
Benzo(a)pyrene	0	ND	0.2	ND	0.1	ND	0.1
Benzo(b)fluoranthene	0.002	0.03J	0.2	ND	0.1	ND	0.1
Benzo(k)fluoranthene	0.002	ND	0.2	ND	0.1	ND	0.1
Chrysene	0.002	ND	0.2	0.01J	0.1	ND	0.1
Hexachlorobenzene	0.04	ND	1.6	ND	0.8	ND	0.8
Hexachlorobutadiene	0.5	ND	1	ND	0.5	ND	0.5
Indeno(1,2,3-cd)pyrene	0.002	ND	0.2	ND	0.1	ND	0.1
Naphthalene	10	54	0.2	ND	0.1	0.1	0.1
Pentachlorophenol	1	ND	1.6	ND	0.8	ND	0.8
Total Metals							
Antimony, Total	3	ND	4	0.59J	4	0.75J	4
Beryllium, Total	3	3.79	0.5	ND	0.5	ND	0.5
Chromium, Total	50	60.44	1	9.88	1	9.87	1
Iron, Total	300	31300	50	4470	50	12800	50
Lead, Total	25	64.64	1	20.82	1	4.31	1
Magnesium, Total	35000	10100	70	69500	70	9620	70
Manganese, Total	300	723.6	1	96.92	1	2998	1
Sodium, Total	20000	105000	100	490000	1000	287000	100
Thallium, Total	0.5	0.38J	2	ND	2	ND	2
Volatile Organics by GC/MS							
1,1,1,2-Tetrachloroethane	5	ND	25	ND	2.5	ND	2.5
1,1,1-Trichloroethane	5	ND	25	ND	2.5	ND	2.5
1,1,2-Trichloroethane	1	ND	15	ND	1.5	ND	1.5
1,1-Dichloroethane	5	ND	25	ND	2.5	ND	2.5
1,1-Dichloropropene	5	ND	25	ND	2.5	ND	2.5
1,2,3-Trichlorobenzene	5	ND	25	ND	2.5	ND	2.5
1,2,3-Trichloropropane	0.04	ND	25	ND	2.5	ND	2.5
1,2,4,5-Tetramethylbenzene	5	110	20	ND	2	ND	2
1,2,4-Trichlorobenzene	5	ND	25	ND	2.5	ND	2.5
1,2,4-Trimethylbenzene	5	800	25	ND	2.5	0.81J	2.5
1,2-Dibromo-3-chloropropane	0.04	ND	25	ND	2.5	ND	2.5
1,2-Dibromoethane	0.0006	ND	20	ND	2	ND	2
1,2-Dichlorobenzene	3	ND	25	ND	2.5	ND	2.5
1,2-Dichloroethane	0.6	ND	5	ND	0.5	ND	0.5
1,2-Dichloropropane	1	ND	10	ND	1	ND	1
1,3,5-Trimethylbenzene	5	480	25	ND	2.5	ND	2.5
1,3-Dichlorobenzene	3	ND	25	ND	2.5	ND	2.5
1,3-Dichloropropane	5	ND	25	ND	2.5	ND	2.5
1,4-Dichlorobenzene	3	ND	25	ND	2.5	ND	2.5
2,2-Dichloropropane	5	ND	25	ND	2.5	ND	2.5
Acrylonitrile	5	ND	50	ND	5	ND	5
Benzene	1	390	5	ND	0.5	0.18J	0.5
Bromobenzene	5	ND	25	ND	2.5	ND	2.5
Bromochloromethane	5	ND	25	ND	2.5	ND	2.5
Bromomethane	5	ND	25	ND	2.5	ND	2.5
Chlorobenzene	5	ND	25	ND	2.5	ND	2.5
Chloroethane	5	ND	25	ND	2.5	ND	2.5
Chloroform	7	ND	25	ND	2.5	ND	2.5
cis-1,2-Dichloroethene	5	ND	25	ND	2.5	ND	2.5
cis-1,3-Dichloropropene	0.4	ND	5	ND	0.5	ND	0.5
Dibromomethane	5	ND	50	ND	5	ND	5
Dichlorodifluoromethane	5	ND	50	ND	5	ND	5
Ethylbenzene	5	380	25	ND	2.5	ND	2.5
Hexachlorobutadiene	0.5	ND	25	ND	2.5	ND	2.5
Isopropylbenzene	5	38	25	ND	2.5	ND	2.5
Methyl tert butyl ether	10	450	25	ND	2.5	4.6	2.5
Methylene chloride	5	ND	25	ND	2.5	ND	2.5
n-Butylbenzene	5	9.4J	25	ND	2.5	ND	2.5
n-Propylbenzene	5	92	25	ND	2.5	ND	2.5
Naphthalene	10	140	25	0.98J	2.5	ND	2.5
o-Chlorotoluene	5	ND	25	ND	2.5	ND	2.5
o-Xylene	5	460	25	ND	2.5	ND	2.5
p-Chlorotoluene	5	ND	25	ND	2.5	ND	2.5
p-Isopropyltoluene	5	ND	25	ND	2.5	ND	2.5
p/m-Xylene	5	2100	25	ND	2.5	1.6J	2.5
sec-Butylbenzene	5	ND	25	ND	2.5	ND	2.5
Styrene	5	ND	25	ND	2.5	ND	2.5
tert-Butylbenzene	5	ND	25	ND	2.5	ND	2.5
Toluene	5	130	25	ND	2.5	ND	2.5
trans-1,2-Dichloroethene	5	ND	25	ND	2.5	ND	2.5
trans-1,3-Dichloropropene	0.4	ND	5	ND	0.5	ND	0.5
trans-1,4-Dichloro-2-butene	5	ND	25	ND	2.5	ND	2.5
Trichlorofluoromethane	5	ND	25	ND	2.5	ND	2.5
Vinyl chloride	2	ND	10	ND	1	ND	1

NOTES
All results reported in micrograms per liter (ug/L)
NY-AWQS - New York TOGS 1.1.1 Ambient Water Quality Standards criteria
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
U - Not detected at the reported detection limit for the sample.
J - Presumptive evidence of compound
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
Exceeds AWQS TOGS 1.1.1
Method Dection Limit exceeds NY-UNRES
-- - Not analyzed

ATTACHMENT 1a

Groundwater Sampling Logs
1460 Sheridan

Low Flow Purge Sheet

Date 10/28/2021 Well ID MW-4

Client: Simon Dev Project: Sheridan Expressway Analyzer Horiba U52

PID (PPM): 0.1 Well Diam (in): 2 DOW (ft): 15.37 DTW (ft): 10.76 3x Well Volume (gal): 2.3

		Temperature		pH		ORP		Specifc Cond.		Turbidity		Dissolved Oxygen		Visual		DTW	Purge Rate
	Time	Deg C	Change %	S.U.	Change	mV	Change	ms/cm	Change %	NTU	Change	mg/L	Change %	Color	Clarity	ft BTOC	mL/min
0	1555	19.24	--	7.33	--	-34	--	7.3	--	0	--	3.16	--	Brown	Turbid	13.18	
1	1600	19.19	0.26	7.19	0.14	-25	9	7.46	2.19	0	#DIV/0!	1.62	48.73	Brown	Turbid	13.4	
2	1605	19.16	0.16	7.4	0.21	-19	6	6.91	7.37	0	#DIV/0!	2.88	77.78	Brown	Turbid	>13	
3	1610	19.34	0.94	7.35	0.05	-20	1	6.35	8.10	0	#DIV/0!	2.84	1.39	Brown	Turbid	>13	
4	1615	19.29	0.26	7.41	0.06	0	20	5.35	15.75	0	#DIV/0!	3.66	28.87	Brown	Clear	>13	
5	1620	19.45	0.83	7.45	0.04	8	8	4.81	10.09	1000+	#VALUE!	4.19	14.48	Brown	Clear	>13	
6	1625	19.41	0.21	7.16	0.29	47	39	0	100.00	443	#VALUE!	11.71	179.47	Brown	Clear	>13	
7	1630	19.26	0.77	7.64	0.48	19	28	3.59	#DIV/0!	699	57.79	5.99	48.85	Brown	Clear	>13	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	

Start Time	1545
End Time	1630
Volume	2
Pump Intake	13
Sample Start	1640
Sample End	1650

Parameter	Change Allowance	OR
Temp	3%	
pH	0.1	
ORP	10	
Spec Cond	3%	
Turbidity	10%	<5 NTU
DO	10%	<0.5 mg/L

Notes __1630: Well drying - collect sample_____

PID = Photoionization detector
PPM - parts per million
in = inches
ft = feet
DOW = depth of well
DTW = Depth to water
Deg C = Degrees Celcius
S.U. = Standard Units
ORP = Oxidation-Reduction Potential
mV = Millivolts
Specific Cond = Specific Conductivity
mS/cm = Milli Siemens per centimeter
NTU = Nephelometric Turbidity Units
mg/L = milligrams per Liter
BTOC = Below top of casing
mL/min = Milliliters per minute

Low Flow Purge Sheet

Date 10/28/2021 Well ID MW-5

Client: Simon Dev Project: Sheridan Expressway Analyzer Horiba U52

PID (PPM): 0.4 Well Diam (in): 2 DOW (ft): 14.78 DTW (ft): 9.03 3x Well Volume (gal): 2.8

		Temperature		pH		ORP		Specifc Cond.		Turbidity		Dissolved Oxygen		Visual		DTW	Purge Rate
	Time	Deg C	Change %	S.U.	Change	mV	Change	ms/cm	Change %	NTU	Change	mg/L	Change %	Color	Clarity	ft BTOC	mL/min
0	1420	20.72	--	7.67	--	31	--	1.14	--	691	--	0.78	--	White	Slightly turbid	9.07	
1	1425	21.01	1.40	7.53	0.14	0	31	1.48	29.82	788	13.32	0.56	28.21	Clear	Clear	9.08	
2	1430	21.05	0.19	7.51	0.02	-6	6	1.42	4.05	683	13.32	0.57	1.79	Clear	Clear	9.1	
3	1435	21.1	0.24	7.5	0.01	-4	2	1.4	1.41	233	65.89	0.53	7.02	Clear	Clear	9.06	
4	1440	21.13	0.14	7.49	0.01	1	5	1.37	2.14	135	42.06	0.56	5.66	Clear	Clear	9.08	
5	1445	21.08	0.24	7.48	0.01	11	10	1.35	1.46	43.6	67.70	0.44	21.43	Clear	Clear	9.05	
6	1450	21.07	0.05	7.48	0.00	14	3	1.34	0.74	47.5	8.94	0.34	22.73	Clear	Clear	9.05	
7	1455	21	0.33	7.48	0.00	18	4	1.36	1.49	42.3	10.95	0.46	35.29	Clear	Clear	9.04	
8	1500	21.05	0.24	7.48	0.00	19	1	1.36	0.00	28.4	32.86	0.51	10.87	Clear	Clear	9.05	
9	1505	21.04	0.05	7.5	0.02	29	10	1.02	25.00	67.2	136.62	0.43	15.69	Clear	Clear	9.05	
10	1510	21.11	0.33	7.49	0.01	28	1	1.02	0.00	49.2	26.79	0.51	18.60	Clear	Clear	9.05	
11	1515	21.27	0.76	7.48	0.01	22	6	1.01	0.98	25.2	48.78	0.51	0.00	Clear	Clear	9.05	
12																	
13																	
14																	
15																	
16																	

Start Time	1400
End Time	1520
Volume	7
Pump Intake	12
Sample Start	1520
Sample End	1530

Parameter	Change Allowance	OR
Temp	3%	
pH	0.1	
ORP	10	
Spec Cond	3%	
Turbidity	10%	<5 NTU
DO	10%	<0.5 mg/L

Notes

Purged 1.5 gal before collecting water quality readings

PID = Photoionization detector
PPM - parts per million
in = inches
ft = feet
DOW = depth of well
DTW = Depth to water
Deg C = Degrees Celcius
S.U. = Standard Units
ORP = Oxidation-Reduction Potential
mV = Millivolts
Specific Cond = Specific Conductivity
mS/cm = Milli Siemens per centimeter
NTU = Nephelometric Turbidity Units
mg/L = milligrams per Liter
BTOC = Below top of casing
mL/min = Milliliters per minute

ATTACHMENT 1b

Groundwater Sampling Logs
1480 Sheridan

Low Flow Purge Sheet

Date 10/28/2021 Well ID MW-1

Client: Simon Dev Project: Sheridan Expressway Analyzer Horiba U52

PID (PPM): 260 Well Diam (in): 2 DOW (ft): 9.74 DTW (ft): 4 3x Well Volume (gal): 2.8

		Temperature		pH		ORP		Specifc Cond.		Turbidity		Dissolved Oxygen		Visual		DTW	Purge Rate
	Time	Deg C	Change %	S.U.	Change	mV	Change	ms/cm	Change %	NTU	Change	mg/L	Change %	Color	Clarity	ft BTOC	mL/min
0	1140	20.83	--	7.23	--	-92	--	0.959	--	0	--	0.02	--	Light brown	Clear	5.46	
1	1145	21.03	0.96	7.21	0.02	-105	13	0.941	1.88	0	#DIV/0!	0	100.00	Clear	Clear	5.5	
2	1150	21.03	0.00	7.21	0.00	-110	5	0.928	1.38	0	#DIV/0!	0	#DIV/0!	Clear	Clear	5.58	
3	1155	21.06	0.14	7.22	0.01	-120	10	1.11	19.61	751	#DIV/0!	0	#DIV/0!	Clear	Clear	5.6	
4	1200	21.06	0.00	7.22	0.00	-121	1	1.09	1.80	690	8.12	0	#DIV/0!	Clear	Clear	5.62	
5	1205	21.53	2.23	7.27	0.05	-128	7	0.751	31.10	535	22.46	0	#DIV/0!	Clear	Clear	6.22	
6	1210	21.46	0.33	7.31	0.04	-133	5	0.668	11.05	0	100.00	0	#DIV/0!	Clear	Clear	6.4	
7	1215	21.4	0.28	7.43	0.12	-139	6	0.623	6.74	1000+	#VALUE!	0	#DIV/0!	Clear	Clear	6.53	
8	1220	21.27	0.61	7.53	0.10	-136	3	0.569	8.67	882	#VALUE!	0	#DIV/0!	Clear	Clear	6.55	
9	1225	21.23	0.19	7.53	0.00	-135	1	0.568	0.18	0	100.00	0	#DIV/0!	Clear	Clear	6.56	
10	1230	21.36	0.61	7.49	0.04	-124	11	0.566	0.35	1000+	#VALUE!	0.32	#DIV/0!	Clear	Clear	6.67	
11	1235	21.35	0.05	7.46	0.03	-116	8	0.564	0.35	1000+	#VALUE!	0.31	3.13	Clear	Clear	6.6	
12																	
13																	
14																	
15																	
16																	

Start Time	1128
End Time	1237
Volume	5.5
Pump Intake	8
Sample Start	1240
Sample End	1250

Parameter	Change Allowance	OR
Temp	3%	
pH	0.1	
ORP	10	
Spec Cond	3%	
Turbidity	10%	<5 NTU
DO	10%	<0.5 mg/L

PID = Photoionization detector
PPM - parts per million
in = inches
ft = feet
DOW = depth of well
DTW = Depth to water
Deg C = Degrees Celcius
S.U. = Standard Units
ORP = Oxidation-Reduction Potential
mV = Millivolts
Specific Cond = Specific Conductivity
mS/cm = Milli Siemens per centimeter
NTU = Nephelometric Turbidity Units
mg/L = milligrams per Liter
BTOC = Below top of casing
mL/min = Milliliters per minute

Notes

_____ Purged ~1 gal before collecting water quality readings
_____
_____
_____

Low Flow Purge Sheet

Date 10/28/2021 Well ID MW-2

Client: Simon Dev Project: Sheridan Expressway Analyzer Horiba U52

PID (PPM): 0.9 Well Diam (in): 2 DOW (ft): 9.37 DTW (ft): 5.08 3x Well Volume (gal): 2.1

		Temperature		pH		ORP		Specifc Cond.		Turbidity		Dissolved Oxygen		Visual		DTW	Purge Rate
	Time	Deg C	Change %	S.U.	Change	mV	Change	ms/cm	Change %	NTU	Change	mg/L	Change %	Color	Clarity	ft BTOC	mL/min
0	950	18.91	--	7.15	--	132	--	4.7	--	810	--	1.89	--	Light brown	Slightly Turbid	6.34	
1	955	18.88	0.16	7.12	0.03	133	1	4.66	0.85	487	39.88	1.24	34.39	Clear	Clear	6.48	
2	1000	18.77	0.58	7.11	0.01	134	1	4.65	0.21	481	1.23	1.42	14.52	Clear	Clear	6.57	
3	1005	18.42	1.86	7.09	0.02	137	3	4.76	2.37	386	19.75	1.14	19.72	Clear	Clear	6.74	
4	1010	18.99	3.09	7	0.09	132	5	5.27	10.71	375	2.85	0.85	25.44	Clear	Clear	7.47	
5	1015	19.01	0.11	6.97	0.03	132	0	5.46	3.61	216	42.40	0.8	5.88	Clear	Clear	7.58	
6	1020	18.97	0.21	6.92	0.05	133	1	5.73	4.95	91.5	57.64	1.14	42.50	Clear	Clear	7.9	
7	1025	19	0.16	6.89	0.03	130	3	5.79	1.05	91.7	0.22	1.17	2.63	Clear	Clear	>8.1	
8	1030	18.99	0.05	6.89	0.00	131	1	5.76	0.52	94.3	2.84	1.18	0.85	Clear	Clear	>8.1	
9	1035	18.62	1.95	6.88	0.01	137	6	5.78	0.35	80.1	15.06	1.19	0.85	Clear	Clear	>8.1	
10	1040	18.45	0.91	6.87	0.01	141	4	5.86	1.38	58.4	27.09	1.36	14.29	Clear	Clear	>8.1	
11	1045	18.23	1.19	6.86	0.01	142	1	5.89	0.51	46.2	20.89	1.25	8.09	Clear	Clear	>8.1	
12																	
13																	
14																	
15																	
16																	

Start Time	945
End Time	1045
Volume	3
Pump Intake	8.5
Sample Start	1045
Sample End	1100

Parameter	Change Allowance	OR
Temp	3%	
pH	0.1	
ORP	10	
Spec Cond	3%	
Turbidity	10%	<5 NTU
DO	10%	<0.5 mg/L

PID = Photoionization detector
PPM - parts per million
in = inches
ft = feet
DOW = depth of well
DTW = Depth to water
Deg C = Degrees Celcius
S.U. = Standard Units
ORP = Oxidation-Reduction Potential
mV = Millivolts
Specific Cond = Specific Conductivity
mS/cm = Milli Siemens per centimeter
NTU = Nephelometric Turbidity Units
mg/L = milligrams per Liter
BTOC = Below top of casing
mL/min = Milliliters per minute

Notes

_____
_____
_____
_____

Low Flow Purge Sheet

Date 10/28/2021 Well ID MW-3

Client: Simon Dev Project: Sheridan Expressway Analyzer Horiba U52

PID (PPM): 2 Well Diam (in): 2 DOW (ft): 9.34 DTW (ft): 6.25 3x Well Volume (gal): 1.5

		Temperature		pH		ORP		Specifc Cond.		Turbidity		Dissolved Oxygen		Visual		DTW	Purge Rate
	Time	Deg C	Change %	S.U.	Change	mV	Change	ms/cm	Change %	NTU	Change	mg/L	Change %	Color	Clarity	ft BTOC	mL/min
0	900	19.12	--	6.79	--	-1	--	3.3	--	507	--	1.5	--	Clear	Clear	7.35	
1	905	20.1	5.13	6.69	0.10	-59	58	3.27	0.91	161	27.95	1.36	9.33	Clear	Clear	8	
2	910	19.93	0.85	6.66	0.03	-57	2	3.53	7.95	116	27.95	0.93	31.62	Clear	Clear	>9	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	

Start Time	855
End Time	910
Volume	1.5
Pump Intake	8-9’
Sample Start	1330
Sample End	1340

Parameter	Change Allowance	OR
Temp	3%	
pH	0.1	
ORP	10	
Spec Cond	3%	
Turbidity	10%	<5 NTU
DO	10%	<0.5 mg/L

Notes

_____ 0915: well dry. Allow time to recharge. 1.5 gal purged before sampling

_____

_____ 1330: Well recharged. Collect samples

_____

PID = Photoionization detector
PPM - parts per million
in = inches
ft = feet
DOW = depth of well
DTW = Depth to water
Deg C = Degrees Celcius
S.U. = Standard Units
ORP = Oxidation-Reduction Potential
mV = Millivolts
Specific Cond = Specific Conductivity
mS/cm = Milli Siemens per centimeter
NTU = Nephelometric Turbidity Units
mg/L = milligrams per Liter
BTOC = Below top of casing
mL/min = Milliliters per minute

ATTACHMENT 2

Analytical Data Packages

ANALYTICAL REPORT

Lab Number:	L2156166
Client:	Environmental Compliance & Control, Inc. 1 Emery Avenue Unit 2 Randolph, NJ 07869
ATTN:	Al Nesheiwat
Phone:	(973) 927-1111
Project Name:	1460+1480 SHERIDAN BLVD.
Project Number:	SHERIDAN
Report Date:	10/28/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2156166-01	B-1 (4.5-5)	SOIL	BRONX, NY	10/12/21 09:50	10/14/21
L2156166-02	B-1 (0.5-1)	SOIL	BRONX, NY	10/12/21 09:30	10/14/21
L2156166-03	B-2 (2.5-3.5)	SOIL	BRONX, NY	10/12/21 10:10	10/14/21
L2156166-04	B-2 (5-6)	SOIL	BRONX, NY	10/12/21 10:25	10/14/21
L2156166-05	B-3 (3-4)	SOIL	BRONX, NY	10/12/21 11:00	10/14/21
L2156166-06	B-3 (9-10)	SOIL	BRONX, NY	10/12/21 10:50	10/14/21
L2156166-07	B-4 (3-4)	SOIL	BRONX, NY	10/12/21 12:10	10/14/21
L2156166-08	B-5 (0.5-1)	SOIL	BRONX, NY	10/12/21 11:34	10/14/21
L2156166-09	B-5 (4.5-5.5)	SOIL	BRONX, NY	10/12/21 11:42	10/14/21
L2156166-10	B-6 (0.5-1.5)	SOIL	BRONX, NY	10/12/21 11:54	10/14/21
L2156166-11	B-6 (4-5)	SOIL	BRONX, NY	10/12/21 11:50	10/14/21
L2156166-12	B-7 (1-2)	SOIL	BRONX, NY	10/12/21 12:28	10/14/21
L2156166-13	B-8 (4.5-5.5)	SOIL	BRONX, NY	10/12/21 13:20	10/14/21
L2156166-14	B-8 (7-8)	SOIL	BRONX, NY	10/12/21 13:30	10/14/21
L2156166-15	B-7 (4-5)	SOIL	BRONX, NY	10/12/21 12:35	10/14/21
L2156166-16	B-11 (1-2)	SOIL	BRONX, NY	10/12/21 12:55	10/14/21
L2156166-17	B-11 (6-7)	SOIL	BRONX, NY	10/12/21 13:00	10/14/21
L2156166-18	B-12 (2-3)	SOIL	BRONX, NY	10/12/21 15:57	10/14/21
L2156166-19	B-13 (9-10)	SOIL	BRONX, NY	10/12/21 14:05	10/14/21
L2156166-20	B-13 (2-3)	SOIL	BRONX, NY	10/12/21 15:00	10/14/21
L2156166-21	B-13 (8-9)	SOIL	BRONX, NY	10/12/21 15:15	10/14/21
L2156166-22	B-14 (8-9)	SOIL	BRONX, NY	10/12/21 15:30	10/14/21
L2156166-23	B-14 (1-2)	SOIL	BRONX, NY	10/12/21 13:25	10/14/21
L2156166-24	B-15 (2-3)	SOIL	BRONX, NY	10/12/21 15:05	10/14/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2156166-25	B-15 (4.5-5.5)	SOIL	BRONX, NY	10/12/21 15:15	10/14/21
L2156166-26	B-16 (1-2)	SOIL	BRONX, NY	10/12/21 15:40	10/14/21
L2156166-27	B-16 (8-9)	SOIL	BRONX, NY	10/12/21 15:45	10/14/21
L2156166-28	FB	WATER	BRONX, NY	10/12/21 08:45	10/14/21
L2156166-29	TB	WATER	BRONX, NY	10/11/21 00:00	10/14/21
L2156166-30	B-10 (0.5-2)	SOIL	BRONX, NY	10/13/21 09:00	10/14/21
L2156166-31	B-21 (1-2)	SOIL	BRONX, NY	10/13/21 09:35	10/14/21
L2156166-32	B-22 (1-2)	SOIL	BRONX, NY	10/13/21 10:50	10/14/21
L2156166-33	B-22 (14-15)	SOIL	BRONX, NY	10/13/21 10:55	10/14/21
L2156166-34	B-23 (1-2)	SOIL	BRONX, NY	10/13/21 10:10	10/14/21
L2156166-35	B-23 (9-10)	SOIL	BRONX, NY	10/13/21 10:20	10/14/21
L2156166-36	B-24 (1-2)	SOIL	BRONX, NY	10/13/21 11:50	10/14/21
L2156166-37	B-24 (9-10)	SOIL	BRONX, NY	10/13/21 11:25	10/14/21
L2156166-38	FB	WATER	BRONX, NY	10/13/21 08:00	10/14/21
L2156166-39	TB	WATER	BRONX, NY	10/11/21 00:00	10/14/21
L2156166-40	B-17 (4-5)	SOIL	BRONX, NY	10/14/21 09:45	10/14/21
L2156166-41	B-17 (8-9)	SOIL	BRONX, NY	10/14/21 10:00	10/14/21
L2156166-42	B-18 (8-9)	SOIL	BRONX, NY	10/14/21 10:55	10/14/21
L2156166-43	B-20 (11-12)	SOIL	BRONX, NY	10/14/21 11:40	10/14/21
L2156166-44	B-19 (3-4)	SOIL	BRONX, NY	10/14/21 12:15	10/14/21

Project Name:	1460+1480 SHERIDAN BLVD.	**Lab Number:**	L2156166
Project Number:	SHERIDAN	**Report Date:**	10/28/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	1460+1480 SHERIDAN BLVD.	**Lab Number:**	L2156166
Project Number:	SHERIDAN	**Report Date:**	10/28/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2156166-01 through -27: The encores for Volatile Organics analysis were received beyond the required 48 hour holding time for extrusion. The client was notified and the results of the analysis are reported.

L2156166-07, -10, -18, -20, -23, -24, -31, -34, -40, and -44: At the client's request, these samples were placed on hold.

Volatile Organics

L2156166-02, -05, and -30: The sample was analyzed as a High Level Methanol based upon screen results. The sample was then analyzed as a Low Level in order to achieve lower reporting limits. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies.

Semivolatile Organics

L2156166-01, -03, -06, -09, -11, -13, and -14: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

The WG1559692-2/-3 LCS/LCSD recoveries, associated with L2156166-01 through -06, -08, -09, and -11 through -14, are below the acceptance criteria for benzoic acid (3%/5%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1559757-2/-3 LCS/LCSD recoveries, associated with L2156166-37, -41, -42, and -43, are below the acceptance criteria for hexachlorocyclopentadiene (LCS 37%) and benzoic acid (2%/2%); however, they have been identified as "difficult" analytes. The results of the associated samples are reported.

Diesel Range Organics

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Case Narrative (continued)

L2156166-14: The sample has an elevated detection limit due to the limited sample volume utilized during extraction, as required by the sample matrix.
The WG1559572-3 Laboratory Duplicate RPD for dro (c10-c28) (29%), performed on L2156166-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.
WG1559761: A Matrix Spike and Laboratory Duplicate were prepared with the sample batch, however, the native sample was not available for reporting; therefore, the results could not be reported.

PCBs
L2156166-30D: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.
The WG1562534-1 Method Blank, associated with L2156166-28 and -38, has a concentration above the reporting limit for Aroclor 1268. Since the associated sample concentrations are non-detect to the RL, no corrective action is required.

Total Metals
L2156166-01 through -06, -08, -09, -11 through -17, -19, -21, -22, -25, -26, -27, -30, -32, -33, -35, -36, -37, -41, -42, and -43: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
The WG1560483-3 MS recoveries for aluminum (820%), iron (307%), and lead (0%), performed on L2156166-01, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1560483-3 MS recoveries, performed on L2156166-01, are outside the acceptance criteria for antimony (61%), cadmium (57%), cobalt (68%), copper (72%), nickel (69%), potassium (69%), and thallium (67%). A post digestion spike was performed and yielded unacceptable recoveries for antimony (58%), cadmium (50%), cobalt (62%), copper (74%), nickel (61%), potassium (78%), and thallium (61%). The serial dilution recoveries were not applicable; therefore, these elements fail the matrix test and the results reported in

Project Name:	1460+1480 SHERIDAN BLVD.	**Lab Number:**	L2156166
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Case Narrative (continued)

the native sample should be considered estimated.

The WG1560483-3 MS recoveries, performed on L2156166-01, are outside the acceptance criteria for barium (73%), calcium (64%), chromium (57%), and manganese (53%). A post digestion spike was performed and yielded unacceptable recoveries for barium (76%), calcium (67%), chromium (70%), and manganese (63%). The serial dilution recoveries were not acceptable; therefore, these elements fail the matrix test and the results reported in the native sample should be considered estimated.

The WG1560487-3 MS recovery, performed on L2156166-01, is outside the acceptance criteria for mercury (193%/125%). A post digestion spike was performed and was within acceptance criteria.

The WG1560492-3 MS recoveries for aluminum (56%), iron (782%), and manganese (0%), performed on L2156166-27, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1560492-3 MS recoveries, performed on L2156166-27, are outside the acceptance criteria for antimony (60%), cobalt (73%), and lead (68%). A post digestion spike was performed and yielded unacceptable recoveries for antimony (79%), cobalt (75%), and lead (73%). The serial dilution recoveries were not applicable; therefore, these elements fail the matrix test and the results reported in the native sample should be considered estimated.

The WG1560493-3 MS recovery, performed on L2156166-27, is outside the acceptance criteria for mercury (125%). A post digestion spike was performed and was within acceptance criteria.

The WG1560483-4 Laboratory Duplicate RPDs for barium (31%), calcium (72%), copper (30%), lead (177%), and potassium (24%), performed on L2156166-01, is outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

The WG1560492-4 Laboratory Duplicate RPD for manganese (24%), performed on L2156166-27, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

The WG1560483-6 serial dilution analysis, associated with L2156166-01, had a %D above the acceptance criteria for aluminum (23%), barium (28%), calcium (30%), chromium (29%), iron (31%), lead (32%), magnesium (30%), manganese (30%), and vanadium (27%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 10/28/21

ORGANICS

VOLATILES

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01
Client ID: B-1 (4.5-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 17:44
Analyst: AJK
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01 Date Collected: 10/12/21 09:50

Client ID: B-1 (4.5-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	1.8	J	ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	33		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	6.5	J	ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01 Date Collected: 10/12/21 09:50

Client ID: B-1 (4.5-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	112		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02
Client ID: B-1 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 21:13
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	320	140	1
1,1-Dichloroethane	ND		ug/kg	64	9.2	1
Chloroform	ND		ug/kg	95	8.9	1
Carbon tetrachloride	ND		ug/kg	64	15.	1
1,2-Dichloropropane	ND		ug/kg	64	8.0	1
Dibromochloromethane	ND		ug/kg	64	8.9	1
1,1,2-Trichloroethane	ND		ug/kg	64	17.	1
Tetrachloroethene	ND		ug/kg	32	12.	1
Chlorobenzene	ND		ug/kg	32	8.1	1
Trichlorofluoromethane	ND		ug/kg	250	44.	1
1,2-Dichloroethane	ND		ug/kg	64	16.	1
1,1,1-Trichloroethane	ND		ug/kg	32	11.	1
Bromodichloromethane	ND		ug/kg	32	6.9	1
trans-1,3-Dichloropropene	ND		ug/kg	64	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	32	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	32	10.	1
1,1-Dichloropropene	ND		ug/kg	32	10.	1
Bromoform	ND		ug/kg	250	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	32	10.	1
Benzene	1700		ug/kg	32	10.	1
Toluene	630		ug/kg	64	34.	1
Ethylbenzene	580		ug/kg	64	9.0	1
Chloromethane	ND		ug/kg	250	59.	1
Bromomethane	ND		ug/kg	130	37.	1
Vinyl chloride	ND		ug/kg	64	21.	1
Chloroethane	ND		ug/kg	130	29.	1
1,1-Dichloroethene	ND		ug/kg	64	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	95	8.7	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02 Date Collected: 10/12/21 09:30

Client ID: B-1 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	32	8.7	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.2	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.4	1
1,4-Dichlorobenzene	14	J	ug/kg	130	11.	1
Methyl tert butyl ether	330		ug/kg	130	13.	1
p/m-Xylene	1400		ug/kg	130	36.	1
o-Xylene	420		ug/kg	64	18.	1
Xylenes, Total	1800		ug/kg	64	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	64	11.	1
1,2-Dichloroethene, Total	ND		ug/kg	64	8.7	1
Dibromomethane	ND		ug/kg	130	15.	1
Styrene	ND		ug/kg	64	12.	1
Dichlorodifluoromethane	ND		ug/kg	640	58.	1
Acetone	ND		ug/kg	640	310	1
Carbon disulfide	ND		ug/kg	640	290	1
2-Butanone	ND		ug/kg	640	140	1
Vinyl acetate	ND		ug/kg	640	140	1
4-Methyl-2-pentanone	ND		ug/kg	640	81.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.1	1
2-Hexanone	ND		ug/kg	640	75.	1
Bromochloromethane	ND		ug/kg	130	13.	1
2,2-Dichloropropane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	64	18.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	32	8.4	1
Bromobenzene	ND		ug/kg	130	9.2	1
n-Butylbenzene	60	J	ug/kg	64	11.	1
sec-Butylbenzene	23	J	ug/kg	64	9.3	1
tert-Butylbenzene	ND		ug/kg	130	7.5	1
o-Chlorotoluene	ND		ug/kg	130	12.	1
p-Chlorotoluene	ND		ug/kg	130	6.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	64.	1
Hexachlorobutadiene	ND		ug/kg	250	11.	1
Isopropylbenzene	190		ug/kg	64	6.9	1
p-Isopropyltoluene	23	J	ug/kg	64	6.9	1
Naphthalene	180	J	ug/kg	250	41.	1
Acrylonitrile	ND		ug/kg	250	73.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02 Date Collected: 10/12/21 09:30

Client ID: B-1 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	130		ug/kg	64	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	17.	1
1,3,5-Trimethylbenzene	300		ug/kg	130	12.	1
1,2,4-Trimethylbenzene	630		ug/kg	130	21.	1
1,4-Dioxane	ND		ug/kg	5100	2200	1
p-Diethylbenzene	ND		ug/kg	130	11.	1
p-Ethyltoluene	590		ug/kg	130	24.	1
1,2,4,5-Tetramethylbenzene	120	J	ug/kg	130	12.	1
Ethyl ether	ND		ug/kg	130	22.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	320	90.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02
Client ID: B-1 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/21 15:55
Analyst: KJD
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	10		ug/kg	0.56	0.18	1
Toluene	2.3		ug/kg	1.1	0.61	1
Ethylbenzene	3.8		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02 Date Collected: 10/12/21 09:30

Client ID: B-1 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	1.5	J	ug/kg	2.2	0.22	1
p/m-Xylene	4.0		ug/kg	2.2	0.63	1
o-Xylene	1.0	J	ug/kg	1.1	0.32	1
Xylenes, Total	5.0	J	ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	39		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	8.0	J	ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	0.28	J	ug/kg	1.1	0.19	1
sec-Butylbenzene	0.16	J	ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	1.5		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02 Date Collected: 10/12/21 09:30

Client ID: B-1 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.35	J	ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	0.45	J	ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	1.0	J	ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	0.29	J	ug/kg	2.2	0.20	1
p-Ethyltoluene	0.62	J	ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	0.33	J	ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	108		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03 D2
Client ID: B-2 (2.5-3.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:10
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/25/21 13:35
Analyst: AJK
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	9600	4400	20
1,1-Dichloroethane	ND		ug/kg	1900	280	20
Chloroform	ND		ug/kg	2900	270	20
Carbon tetrachloride	ND		ug/kg	1900	440	20
1,2-Dichloropropane	ND		ug/kg	1900	240	20
Dibromochloromethane	ND		ug/kg	1900	270	20
1,1,2-Trichloroethane	ND		ug/kg	1900	510	20
Tetrachloroethene	ND		ug/kg	960	380	20
Chlorobenzene	ND		ug/kg	960	240	20
Trichlorofluoromethane	ND		ug/kg	7700	1300	20
1,2-Dichloroethane	ND		ug/kg	1900	490	20
1,1,1-Trichloroethane	ND		ug/kg	960	320	20
Bromodichloromethane	ND		ug/kg	960	210	20
trans-1,3-Dichloropropene	ND		ug/kg	1900	520	20
cis-1,3-Dichloropropene	ND		ug/kg	960	300	20
1,3-Dichloropropene, Total	ND		ug/kg	960	300	20
1,1-Dichloropropene	ND		ug/kg	960	300	20
Bromoform	ND		ug/kg	7700	470	20
1,1,2,2-Tetrachloroethane	ND		ug/kg	960	320	20
Benzene	46000		ug/kg	960	320	20
Toluene	320000		ug/kg	1900	1000	20
Ethylbenzene	230000		ug/kg	1900	270	20
Chloromethane	ND		ug/kg	7700	1800	20
Bromomethane	ND		ug/kg	3800	1100	20
Vinyl chloride	ND		ug/kg	1900	640	20
Chloroethane	ND		ug/kg	3800	870	20
1,1-Dichloroethene	ND		ug/kg	1900	460	20
trans-1,2-Dichloroethene	ND		ug/kg	2900	260	20

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03 D2 Date Collected: 10/12/21 10:10
Client ID: B-2 (2.5-3.5) Date Received: 10/14/21
Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	960	260	20
1,2-Dichlorobenzene	ND		ug/kg	3800	280	20
1,3-Dichlorobenzene	ND		ug/kg	3800	280	20
1,4-Dichlorobenzene	ND		ug/kg	3800	330	20
Methyl tert butyl ether	11000		ug/kg	3800	390	20
p/m-Xylene	1100000		ug/kg	3800	1100	20
o-Xylene	480000		ug/kg	1900	560	20
Xylenes, Total	1600000		ug/kg	1900	560	20
cis-1,2-Dichloroethene	ND		ug/kg	1900	340	20
1,2-Dichloroethene, Total	ND		ug/kg	1900	260	20
Dibromomethane	ND		ug/kg	3800	460	20
Styrene	ND		ug/kg	1900	380	20
Dichlorodifluoromethane	ND		ug/kg	19000	1800	20
Acetone	ND		ug/kg	19000	9200	20
Carbon disulfide	ND		ug/kg	19000	8700	20
2-Butanone	ND		ug/kg	19000	4300	20
Vinyl acetate	ND		ug/kg	19000	4100	20
4-Methyl-2-pentanone	ND		ug/kg	19000	2400	20
1,2,3-Trichloropropane	ND		ug/kg	3800	240	20
2-Hexanone	ND		ug/kg	19000	2300	20
Bromochloromethane	ND		ug/kg	3800	390	20
2,2-Dichloropropane	ND		ug/kg	3800	390	20
1,2-Dibromoethane	ND		ug/kg	1900	540	20
1,3-Dichloropropane	ND		ug/kg	3800	320	20
1,1,1,2-Tetrachloroethane	ND		ug/kg	960	250	20
Bromobenzene	ND		ug/kg	3800	280	20
n-Butylbenzene	28000		ug/kg	1900	320	20
sec-Butylbenzene	10000		ug/kg	1900	280	20
tert-Butylbenzene	280	J	ug/kg	3800	230	20
o-Chlorotoluene	ND		ug/kg	3800	370	20
p-Chlorotoluene	ND		ug/kg	3800	210	20
1,2-Dibromo-3-chloropropane	ND		ug/kg	5800	1900	20
Hexachlorobutadiene	ND		ug/kg	7700	320	20
Isopropylbenzene	31000		ug/kg	1900	210	20
p-Isopropyltoluene	14000		ug/kg	1900	210	20
Naphthalene	86000		ug/kg	7700	1200	20
Acrylonitrile	ND		ug/kg	7700	2200	20

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03 D2 Date Collected: 10/12/21 10:10

Client ID: B-2 (2.5-3.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	94000		ug/kg	1900	330	20
1,2,3-Trichlorobenzene	ND		ug/kg	3800	620	20
1,2,4-Trichlorobenzene	ND		ug/kg	3800	520	20
1,3,5-Trimethylbenzene	240000		ug/kg	3800	370	20
1,2,4-Trimethylbenzene	760000	E	ug/kg	3800	640	20
1,4-Dioxane	ND		ug/kg	150000	67000	20
p-Diethylbenzene	250000		ug/kg	3800	340	20
p-Ethyltoluene	640000	E	ug/kg	3800	740	20
1,2,4,5-Tetramethylbenzene	80000		ug/kg	3800	370	20
Ethyl ether	ND		ug/kg	3800	660	20
trans-1,4-Dichloro-2-butene	ND		ug/kg	9600	2700	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03 D
Client ID: B-2 (2.5-3.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:10
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 21:39
Analyst: JC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,4-Trimethylbenzene	720000		ug/kg	9600	1600	50
p-Ethyltoluene	580000		ug/kg	9600	1800	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04 D2
Client ID: B-2 (5-6)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/25/21 14:01
Analyst: AJK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	1700	790	5
1,1-Dichloroethane	ND		ug/kg	340	50.	5
Chloroform	ND		ug/kg	520	48.	5
Carbon tetrachloride	ND		ug/kg	340	79.	5
1,2-Dichloropropane	ND		ug/kg	340	43.	5
Dibromochloromethane	ND		ug/kg	340	48.	5
1,1,2-Trichloroethane	ND		ug/kg	340	92.	5
Tetrachloroethene	ND		ug/kg	170	67.	5
Chlorobenzene	ND		ug/kg	170	44.	5
Trichlorofluoromethane	ND		ug/kg	1400	240	5
1,2-Dichloroethane	ND		ug/kg	340	88.	5
1,1,1-Trichloroethane	ND		ug/kg	170	57.	5
Bromodichloromethane	ND		ug/kg	170	38.	5
trans-1,3-Dichloropropene	ND		ug/kg	340	94.	5
cis-1,3-Dichloropropene	ND		ug/kg	170	54.	5
1,3-Dichloropropene, Total	ND		ug/kg	170	54.	5
1,1-Dichloropropene	ND		ug/kg	170	55.	5
Bromoform	ND		ug/kg	1400	85.	5
1,1,2,2-Tetrachloroethane	ND		ug/kg	170	57.	5
Benzene	4600		ug/kg	170	57.	5
Toluene	3900		ug/kg	340	190	5
Ethylbenzene	60000		ug/kg	340	48.	5
Chloromethane	ND		ug/kg	1400	320	5
Bromomethane	ND		ug/kg	690	200	5
Vinyl chloride	ND		ug/kg	340	120	5
Chloroethane	ND		ug/kg	690	160	5
1,1-Dichloroethene	ND		ug/kg	340	82.	5
trans-1,2-Dichloroethene	ND		ug/kg	520	47.	5

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04 D2 Date Collected: 10/12/21 10:25
Client ID: B-2 (5-6) Date Received: 10/14/21
Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	170	47.	5
1,2-Dichlorobenzene	ND		ug/kg	690	50.	5
1,3-Dichlorobenzene	ND		ug/kg	690	51.	5
1,4-Dichlorobenzene	ND		ug/kg	690	59.	5
Methyl tert butyl ether	3100		ug/kg	690	69.	5
p/m-Xylene	250000	E	ug/kg	690	190	5
o-Xylene	38000		ug/kg	340	100	5
cis-1,2-Dichloroethene	ND		ug/kg	340	60.	5
1,2-Dichloroethene, Total	ND		ug/kg	340	47.	5
Dibromomethane	ND		ug/kg	690	82.	5
Styrene	ND		ug/kg	340	67.	5
Dichlorodifluoromethane	ND		ug/kg	3400	310	5
Acetone	ND		ug/kg	3400	1600	5
Carbon disulfide	ND		ug/kg	3400	1600	5
2-Butanone	ND		ug/kg	3400	760	5
Vinyl acetate	ND		ug/kg	3400	740	5
4-Methyl-2-pentanone	ND		ug/kg	3400	440	5
1,2,3-Trichloropropane	ND		ug/kg	690	44.	5
2-Hexanone	ND		ug/kg	3400	410	5
Bromochloromethane	ND		ug/kg	690	70.	5
2,2-Dichloropropane	ND		ug/kg	690	70.	5
1,2-Dibromoethane	ND		ug/kg	340	96.	5
1,3-Dichloropropane	ND		ug/kg	690	57.	5
1,1,1,2-Tetrachloroethane	ND		ug/kg	170	45.	5
Bromobenzene	ND		ug/kg	690	50.	5
n-Butylbenzene	7000		ug/kg	340	57.	5
sec-Butylbenzene	2600		ug/kg	340	50.	5
tert-Butylbenzene	83	J	ug/kg	690	41.	5
o-Chlorotoluene	ND		ug/kg	690	66.	5
p-Chlorotoluene	ND		ug/kg	690	37.	5
1,2-Dibromo-3-chloropropane	ND		ug/kg	1000	340	5
Hexachlorobutadiene	ND		ug/kg	1400	58.	5
Isopropylbenzene	8400		ug/kg	340	38.	5
p-Isopropyltoluene	2000		ug/kg	340	38.	5
Naphthalene	20000		ug/kg	1400	220	5
Acrylonitrile	ND		ug/kg	1400	400	5
n-Propylbenzene	26000		ug/kg	340	59.	5

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04 D2 Date Collected: 10/12/21 10:25
Client ID: B-2 (5-6) Date Received: 10/14/21
Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	690	110	5
1,2,4-Trichlorobenzene	ND		ug/kg	690	94.	5
1,3,5-Trimethylbenzene	56000		ug/kg	690	66.	5
1,2,4-Trimethylbenzene	170000	E	ug/kg	690	110	5
1,4-Dioxane	ND		ug/kg	28000	12000	5
p-Diethylbenzene	56000		ug/kg	690	61.	5
p-Ethyltoluene	150000	E	ug/kg	690	130	5
1,2,4,5-Tetramethylbenzene	18000		ug/kg	690	66.	5
Ethyl ether	ND		ug/kg	690	120	5
trans-1,4-Dichloro-2-butene	ND		ug/kg	1700	490	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	91		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04 D
Client ID: B-2 (5-6)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 22:06
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
p/m-Xylene	260000		ug/kg	1400	380	10
Xylenes, Total	300000		ug/kg	340	100	10
1,2,4-Trimethylbenzene	180000		ug/kg	1400	230	10
p-Ethyltoluene	140000		ug/kg	1400	260	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05
Client ID: B-3 (3-4)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 22:32
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	460	210	1
1,1-Dichloroethane	ND		ug/kg	92	13.	1
Chloroform	ND		ug/kg	140	13.	1
Carbon tetrachloride	ND		ug/kg	92	21.	1
1,2-Dichloropropane	ND		ug/kg	92	11.	1
Dibromochloromethane	ND		ug/kg	92	13.	1
1,1,2-Trichloroethane	ND		ug/kg	92	24.	1
Tetrachloroethene	ND		ug/kg	46	18.	1
Chlorobenzene	ND		ug/kg	46	12.	1
Trichlorofluoromethane	ND		ug/kg	370	64.	1
1,2-Dichloroethane	ND		ug/kg	92	24.	1
1,1,1-Trichloroethane	ND		ug/kg	46	15.	1
Bromodichloromethane	ND		ug/kg	46	10.	1
trans-1,3-Dichloropropene	ND		ug/kg	92	25.	1
cis-1,3-Dichloropropene	ND		ug/kg	46	14.	1
1,3-Dichloropropene, Total	ND		ug/kg	46	14.	1
1,1-Dichloropropene	ND		ug/kg	46	14.	1
Bromoform	ND		ug/kg	370	22.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	46	15.	1
Benzene	2300		ug/kg	46	15.	1
Toluene	2000		ug/kg	92	50.	1
Ethylbenzene	1500		ug/kg	92	13.	1
Chloromethane	ND		ug/kg	370	85.	1
Bromomethane	ND		ug/kg	180	53.	1
Vinyl chloride	ND		ug/kg	92	31.	1
Chloroethane	ND		ug/kg	180	41.	1
1,1-Dichloroethene	ND		ug/kg	92	22.	1
trans-1,2-Dichloroethene	ND		ug/kg	140	12.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05 Date Collected: 10/12/21 11:00

Client ID: B-3 (3-4) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	46	12.	1
1,2-Dichlorobenzene	ND		ug/kg	180	13.	1
1,3-Dichlorobenzene	ND		ug/kg	180	14.	1
1,4-Dichlorobenzene	ND		ug/kg	180	16.	1
Methyl tert butyl ether	1000		ug/kg	180	18.	1
p/m-Xylene	2900		ug/kg	180	51.	1
o-Xylene	1600		ug/kg	92	27.	1
Xylenes, Total	4500		ug/kg	92	27.	1
cis-1,2-Dichloroethene	ND		ug/kg	92	16.	1
1,2-Dichloroethene, Total	ND		ug/kg	92	12.	1
Dibromomethane	ND		ug/kg	180	22.	1
Styrene	ND		ug/kg	92	18.	1
Dichlorodifluoromethane	ND		ug/kg	920	84.	1
Acetone	ND		ug/kg	920	440	1
Carbon disulfide	ND		ug/kg	920	420	1
2-Butanone	ND		ug/kg	920	200	1
Vinyl acetate	ND		ug/kg	920	200	1
4-Methyl-2-pentanone	ND		ug/kg	920	120	1
1,2,3-Trichloropropane	ND		ug/kg	180	12.	1
2-Hexanone	ND		ug/kg	920	110	1
Bromochloromethane	ND		ug/kg	180	19.	1
2,2-Dichloropropane	ND		ug/kg	180	18.	1
1,2-Dibromoethane	ND		ug/kg	92	26.	1
1,3-Dichloropropane	ND		ug/kg	180	15.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	46	12.	1
Bromobenzene	ND		ug/kg	180	13.	1
n-Butylbenzene	62	J	ug/kg	92	15.	1
sec-Butylbenzene	38	J	ug/kg	92	13.	1
tert-Butylbenzene	ND		ug/kg	180	11.	1
o-Chlorotoluene	ND		ug/kg	180	17.	1
p-Chlorotoluene	ND		ug/kg	180	9.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	270	91.	1
Hexachlorobutadiene	ND		ug/kg	370	15.	1
Isopropylbenzene	160		ug/kg	92	10.	1
p-Isopropyltoluene	31	J	ug/kg	92	10.	1
Naphthalene	190	J	ug/kg	370	59.	1
Acrylonitrile	ND		ug/kg	370	100	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05 Date Collected: 10/12/21 11:00

Client ID: B-3 (3-4) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	270		ug/kg	92	16.	1
1,2,3-Trichlorobenzene	ND		ug/kg	180	29.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	25.	1
1,3,5-Trimethylbenzene	510		ug/kg	180	18.	1
1,2,4-Trimethylbenzene	1200		ug/kg	180	30.	1
1,4-Dioxane	ND		ug/kg	7300	3200	1
p-Diethylbenzene	56	J	ug/kg	180	16.	1
p-Ethyltoluene	840		ug/kg	180	35.	1
1,2,4,5-Tetramethylbenzene	190		ug/kg	180	17.	1
Ethyl ether	ND		ug/kg	180	31.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	460	130	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05
Client ID: B-3 (3-4)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/21 17:14
Analyst: KJD
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	9.7	4.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.28	1
Chloroform	ND		ug/kg	2.9	0.27	1
Carbon tetrachloride	ND		ug/kg	1.9	0.45	1
1,2-Dichloropropane	ND		ug/kg	1.9	0.24	1
Dibromochloromethane	ND		ug/kg	1.9	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.52	1
Tetrachloroethene	ND		ug/kg	0.97	0.38	1
Chlorobenzene	ND		ug/kg	0.97	0.25	1
Trichlorofluoromethane	ND		ug/kg	7.8	1.4	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.50	1
1,1,1-Trichloroethane	ND		ug/kg	0.97	0.32	1
Bromodichloromethane	ND		ug/kg	0.97	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.53	1
cis-1,3-Dichloropropene	ND		ug/kg	0.97	0.31	1
1,3-Dichloropropene, Total	ND		ug/kg	0.97	0.31	1
1,1-Dichloropropene	ND		ug/kg	0.97	0.31	1
Bromoform	ND		ug/kg	7.8	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.97	0.32	1
Benzene	4.9		ug/kg	0.97	0.32	1
Toluene	1.8	J	ug/kg	1.9	1.0	1
Ethylbenzene	0.53	J	ug/kg	1.9	0.27	1
Chloromethane	ND		ug/kg	7.8	1.8	1
Bromomethane	ND		ug/kg	3.9	1.1	1
Vinyl chloride	ND		ug/kg	1.9	0.65	1
Chloroethane	ND		ug/kg	3.9	0.88	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.46	1
trans-1,2-Dichloroethene	1.4	J	ug/kg	2.9	0.27	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05 Date Collected: 10/12/21 11:00

Client ID: B-3 (3-4) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.97	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	3.9	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	3.9	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	3.9	0.33	1
Methyl tert butyl ether	2.6	J	ug/kg	3.9	0.39	1
p/m-Xylene	1.2	J	ug/kg	3.9	1.1	1
o-Xylene	0.60	J	ug/kg	1.9	0.57	1
Xylenes, Total	1.8	J	ug/kg	1.9	0.57	1
cis-1,2-Dichloroethene	ND		ug/kg	1.9	0.34	1
1,2-Dichloroethene, Total	1.4	J	ug/kg	1.9	0.27	1
Dibromomethane	ND		ug/kg	3.9	0.46	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	19	1.8	1
Acetone	52		ug/kg	19	9.4	1
Carbon disulfide	ND		ug/kg	19	8.8	1
2-Butanone	5.3	J	ug/kg	19	4.3	1
Vinyl acetate	ND		ug/kg	19	4.2	1
4-Methyl-2-pentanone	ND		ug/kg	19	2.5	1
1,2,3-Trichloropropane	ND		ug/kg	3.9	0.25	1
2-Hexanone	ND		ug/kg	19	2.3	1
Bromochloromethane	ND		ug/kg	3.9	0.40	1
2,2-Dichloropropane	ND		ug/kg	3.9	0.39	1
1,2-Dibromoethane	ND		ug/kg	1.9	0.54	1
1,3-Dichloropropane	ND		ug/kg	3.9	0.32	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.97	0.26	1
Bromobenzene	ND		ug/kg	3.9	0.28	1
n-Butylbenzene	ND		ug/kg	1.9	0.32	1
sec-Butylbenzene	ND		ug/kg	1.9	0.28	1
tert-Butylbenzene	ND		ug/kg	3.9	0.23	1
o-Chlorotoluene	ND		ug/kg	3.9	0.37	1
p-Chlorotoluene	ND		ug/kg	3.9	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	1.9	1
Hexachlorobutadiene	ND		ug/kg	7.8	0.33	1
Isopropylbenzene	ND		ug/kg	1.9	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.9	0.21	1
Naphthalene	ND		ug/kg	7.8	1.3	1
Acrylonitrile	ND		ug/kg	7.8	2.2	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05 Date Collected: 10/12/21 11:00

Client ID: B-3 (3-4) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.9	0.33	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.9	0.63	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.9	0.53	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.9	0.38	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.9	0.65	1
1,4-Dioxane	ND		ug/kg	160	68.	1
p-Diethylbenzene	ND		ug/kg	3.9	0.34	1
p-Ethyltoluene	ND		ug/kg	3.9	0.75	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.9	0.37	1
Ethyl ether	ND		ug/kg	3.9	0.66	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.7	2.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	113		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06 D2
Client ID: B-3 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/25/21 14:27
Analyst: AJK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	1000	460	2.5
1,1-Dichloroethane	ND		ug/kg	200	29.	2.5
Chloroform	ND		ug/kg	300	28.	2.5
Carbon tetrachloride	ND		ug/kg	200	46.	2.5
1,2-Dichloropropane	ND		ug/kg	200	25.	2.5
Dibromochloromethane	ND		ug/kg	200	28.	2.5
1,1,2-Trichloroethane	ND		ug/kg	200	54.	2.5
Tetrachloroethene	ND		ug/kg	100	39.	2.5
Chlorobenzene	ND		ug/kg	100	26.	2.5
Trichlorofluoromethane	ND		ug/kg	800	140	2.5
1,2-Dichloroethane	ND		ug/kg	200	52.	2.5
1,1,1-Trichloroethane	ND		ug/kg	100	34.	2.5
Bromodichloromethane	ND		ug/kg	100	22.	2.5
trans-1,3-Dichloropropene	ND		ug/kg	200	55.	2.5
cis-1,3-Dichloropropene	ND		ug/kg	100	32.	2.5
1,3-Dichloropropene, Total	ND		ug/kg	100	32.	2.5
1,1-Dichloropropene	ND		ug/kg	100	32.	2.5
Bromoform	ND		ug/kg	800	49.	2.5
1,1,2,2-Tetrachloroethane	ND		ug/kg	100	33.	2.5
Benzene	960		ug/kg	100	33.	2.5
Toluene	ND		ug/kg	200	110	2.5
Ethylbenzene	27000		ug/kg	200	28.	2.5
Chloromethane	ND		ug/kg	800	190	2.5
Bromomethane	ND		ug/kg	400	120	2.5
Vinyl chloride	ND		ug/kg	200	67.	2.5
Chloroethane	ND		ug/kg	400	91.	2.5
1,1-Dichloroethene	ND		ug/kg	200	48.	2.5
trans-1,2-Dichloroethene	ND		ug/kg	300	28.	2.5

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06 D2 Date Collected: 10/12/21 10:50
Client ID: B-3 (9-10) Date Received: 10/14/21
Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	100	28.	2.5
1,2-Dichlorobenzene	ND		ug/kg	400	29.	2.5
1,3-Dichlorobenzene	ND		ug/kg	400	30.	2.5
1,4-Dichlorobenzene	ND		ug/kg	400	34.	2.5
Methyl tert butyl ether	1500		ug/kg	400	40.	2.5
p/m-Xylene	110000		ug/kg	400	110	2.5
o-Xylene	79	J	ug/kg	200	58.	2.5
Xylenes, Total	110000	J	ug/kg	200	58.	2.5
cis-1,2-Dichloroethene	ND		ug/kg	200	35.	2.5
1,2-Dichloroethene, Total	ND		ug/kg	200	28.	2.5
Dibromomethane	ND		ug/kg	400	48.	2.5
Styrene	ND		ug/kg	200	39.	2.5
Dichlorodifluoromethane	ND		ug/kg	2000	180	2.5
Acetone	ND		ug/kg	2000	970	2.5
Carbon disulfide	ND		ug/kg	2000	920	2.5
2-Butanone	ND		ug/kg	2000	450	2.5
Vinyl acetate	ND		ug/kg	2000	430	2.5
4-Methyl-2-pentanone	ND		ug/kg	2000	260	2.5
1,2,3-Trichloropropane	ND		ug/kg	400	26.	2.5
2-Hexanone	ND		ug/kg	2000	240	2.5
Bromochloromethane	ND		ug/kg	400	41.	2.5
2,2-Dichloropropane	ND		ug/kg	400	41.	2.5
1,2-Dibromoethane	ND		ug/kg	200	56.	2.5
1,3-Dichloropropane	ND		ug/kg	400	34.	2.5
1,1,1,2-Tetrachloroethane	ND		ug/kg	100	26.	2.5
Bromobenzene	ND		ug/kg	400	29.	2.5
n-Butylbenzene	3600		ug/kg	200	34.	2.5
sec-Butylbenzene	1300		ug/kg	200	29.	2.5
tert-Butylbenzene	39	J	ug/kg	400	24.	2.5
o-Chlorotoluene	ND		ug/kg	400	38.	2.5
p-Chlorotoluene	ND		ug/kg	400	22.	2.5
1,2-Dibromo-3-chloropropane	ND		ug/kg	600	200	2.5
Hexachlorobutadiene	ND		ug/kg	800	34.	2.5
Isopropylbenzene	3800		ug/kg	200	22.	2.5
p-Isopropyltoluene	940		ug/kg	200	22.	2.5
Naphthalene	9900		ug/kg	800	130	2.5
Acrylonitrile	ND		ug/kg	800	230	2.5

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06 D2 Date Collected: 10/12/21 10:50
Client ID: B-3 (9-10) Date Received: 10/14/21
Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	13000		ug/kg	200	34.	2.5
1,2,3-Trichlorobenzene	ND		ug/kg	400	65.	2.5
1,2,4-Trichlorobenzene	ND		ug/kg	400	55.	2.5
1,3,5-Trimethylbenzene	26000		ug/kg	400	39.	2.5
1,2,4-Trimethylbenzene	83000	E	ug/kg	400	67.	2.5
1,4-Dioxane	ND		ug/kg	16000	7100	2.5
p-Diethylbenzene	28000		ug/kg	400	36.	2.5
p-Ethyltoluene	68000	E	ug/kg	400	77.	2.5
1,2,4,5-Tetramethylbenzene	9400		ug/kg	400	38.	2.5
Ethyl ether	ND		ug/kg	400	68.	2.5
trans-1,4-Dichloro-2-butene	ND		ug/kg	1000	280	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	92		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06 D
Client ID: B-3 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 22:58
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,4-Trimethylbenzene	81000		ug/kg	1600	270	10
p-Ethyltoluene	66000		ug/kg	1600	310	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	97		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08
Client ID: B-5 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:34
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/25/21 15:45
Analyst: AJK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.93	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.67	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08 Date Collected: 10/12/21 11:34

Client ID: B-5 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
Vinyl acetate	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.67	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.4	0.87	1
Acrylonitrile	ND		ug/kg	5.4	1.5	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08 Date Collected: 10/12/21 11:34

Client ID: B-5 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	47.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.51	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09
Client ID: B-5 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:42
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 18:10
Analyst: AJK
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.22	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	0.76		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09 Date Collected: 10/12/21 11:42

Client ID: B-5 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	0.96	J	ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	64		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	6.9	J	ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.84	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09 Date Collected: 10/12/21 11:42

Client ID: B-5 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	115		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11
Client ID: B-6 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 18:37
Analyst: AJK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.18	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	0.38	J	ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11 Date Collected: 10/12/21 11:50

Client ID: B-6 (4-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	0.85	J	ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	45		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	8.8	J	ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11 Date Collected: 10/12/21 11:50

Client ID: B-6 (4-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	115		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12
Client ID: B-7 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:28
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 19:03
Analyst: AJK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	0.85	J	ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	0.78		ug/kg	0.60	0.20	1
Toluene	1.6		ug/kg	1.2	0.65	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12 Date Collected: 10/12/21 12:28

Client ID: B-7 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	0.54	J	ug/kg	2.4	0.24	1
p/m-Xylene	0.76	J	ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	0.76	J	ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12 Date Collected: 10/12/21 12:28

Client ID: B-7 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	96	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	115		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13
Client ID: B-8 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 19:29
Analyst: AJK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	4.2	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.27	1
Chloroform	ND		ug/kg	2.8	0.26	1
Carbon tetrachloride	ND		ug/kg	1.8	0.42	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.23	1
Dibromochloromethane	ND		ug/kg	1.8	0.26	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.49	1
Tetrachloroethene	0.62	J	ug/kg	0.92	0.36	1
Chlorobenzene	ND		ug/kg	0.92	0.23	1
Trichlorofluoromethane	ND		ug/kg	7.4	1.3	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.47	1
1,1,1-Trichloroethane	ND		ug/kg	0.92	0.31	1
Bromodichloromethane	ND		ug/kg	0.92	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.50	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.29	1
1,1-Dichloropropene	ND		ug/kg	0.92	0.29	1
Bromoform	ND		ug/kg	7.4	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.30	1
Benzene	ND		ug/kg	0.92	0.30	1
Toluene	ND		ug/kg	1.8	1.0	1
Ethylbenzene	ND		ug/kg	1.8	0.26	1
Chloromethane	ND		ug/kg	7.4	1.7	1
Bromomethane	ND		ug/kg	3.7	1.1	1
Vinyl chloride	ND		ug/kg	1.8	0.62	1
Chloroethane	ND		ug/kg	3.7	0.83	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	2.8	0.25	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13 Date Collected: 10/12/21 13:20

Client ID: B-8 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.92	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	3.7	0.26	1
1,3-Dichlorobenzene	ND		ug/kg	3.7	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	3.7	0.32	1
Methyl tert butyl ether	ND		ug/kg	3.7	0.37	1
p/m-Xylene	ND		ug/kg	3.7	1.0	1
o-Xylene	ND		ug/kg	1.8	0.54	1
Xylenes, Total	ND		ug/kg	1.8	0.54	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.32	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	0.25	1
Dibromomethane	ND		ug/kg	3.7	0.44	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	18	1.7	1
Acetone	ND		ug/kg	18	8.9	1
Carbon disulfide	ND		ug/kg	18	8.4	1
2-Butanone	ND		ug/kg	18	4.1	1
Vinyl acetate	ND		ug/kg	18	4.0	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.4	1
1,2,3-Trichloropropane	ND		ug/kg	3.7	0.23	1
2-Hexanone	ND		ug/kg	18	2.2	1
Bromochloromethane	ND		ug/kg	3.7	0.38	1
2,2-Dichloropropane	ND		ug/kg	3.7	0.37	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.51	1
1,3-Dichloropropane	ND		ug/kg	3.7	0.31	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.24	1
Bromobenzene	ND		ug/kg	3.7	0.27	1
n-Butylbenzene	ND		ug/kg	1.8	0.31	1
sec-Butylbenzene	ND		ug/kg	1.8	0.27	1
tert-Butylbenzene	ND		ug/kg	3.7	0.22	1
o-Chlorotoluene	ND		ug/kg	3.7	0.35	1
p-Chlorotoluene	ND		ug/kg	3.7	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	1.8	1
Hexachlorobutadiene	ND		ug/kg	7.4	0.31	1
Isopropylbenzene	ND		ug/kg	1.8	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.20	1
Naphthalene	ND		ug/kg	7.4	1.2	1
Acrylonitrile	ND		ug/kg	7.4	2.1	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13
Client ID: B-8 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.8	0.32	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.7	0.59	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.7	0.50	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.7	0.36	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.7	0.62	1
1,4-Dioxane	ND		ug/kg	150	65.	1
p-Diethylbenzene	ND		ug/kg	3.7	0.33	1
p-Ethyltoluene	ND		ug/kg	3.7	0.71	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.35	1
Ethyl ether	ND		ug/kg	3.7	0.63	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.2	2.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	116		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14
Client ID: B-8 (7-8)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 19:55
Analyst: JC
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	4.2	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.27	1
Chloroform	ND		ug/kg	2.8	0.26	1
Carbon tetrachloride	ND		ug/kg	1.8	0.42	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.23	1
Dibromochloromethane	ND		ug/kg	1.8	0.26	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.49	1
Tetrachloroethene	ND		ug/kg	0.92	0.36	1
Chlorobenzene	ND		ug/kg	0.92	0.23	1
Trichlorofluoromethane	ND		ug/kg	7.4	1.3	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.48	1
1,1,1-Trichloroethane	ND		ug/kg	0.92	0.31	1
Bromodichloromethane	ND		ug/kg	0.92	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.50	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.29	1
1,1-Dichloropropene	ND		ug/kg	0.92	0.29	1
Bromoform	ND		ug/kg	7.4	0.46	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.31	1
Benzene	ND		ug/kg	0.92	0.31	1
Toluene	ND		ug/kg	1.8	1.0	1
Ethylbenzene	ND		ug/kg	1.8	0.26	1
Chloromethane	ND		ug/kg	7.4	1.7	1
Bromomethane	ND		ug/kg	3.7	1.1	1
Vinyl chloride	ND		ug/kg	1.8	0.62	1
Chloroethane	ND		ug/kg	3.7	0.84	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	2.8	0.25	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14 Date Collected: 10/12/21 13:30

Client ID: B-8 (7-8) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.92	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	3.7	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	3.7	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	3.7	0.32	1
Methyl tert butyl ether	ND		ug/kg	3.7	0.37	1
p/m-Xylene	ND		ug/kg	3.7	1.0	1
o-Xylene	ND		ug/kg	1.8	0.54	1
Xylenes, Total	ND		ug/kg	1.8	0.54	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.32	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	0.25	1
Dibromomethane	ND		ug/kg	3.7	0.44	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	18	1.7	1
Acetone	10	J	ug/kg	18	8.9	1
Carbon disulfide	ND		ug/kg	18	8.4	1
2-Butanone	ND		ug/kg	18	4.1	1
Vinyl acetate	ND		ug/kg	18	4.0	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.4	1
1,2,3-Trichloropropane	ND		ug/kg	3.7	0.23	1
2-Hexanone	ND		ug/kg	18	2.2	1
Bromochloromethane	ND		ug/kg	3.7	0.38	1
2,2-Dichloropropane	ND		ug/kg	3.7	0.37	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.52	1
1,3-Dichloropropane	ND		ug/kg	3.7	0.31	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.24	1
Bromobenzene	ND		ug/kg	3.7	0.27	1
n-Butylbenzene	ND		ug/kg	1.8	0.31	1
sec-Butylbenzene	ND		ug/kg	1.8	0.27	1
tert-Butylbenzene	ND		ug/kg	3.7	0.22	1
o-Chlorotoluene	ND		ug/kg	3.7	0.35	1
p-Chlorotoluene	ND		ug/kg	3.7	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	1.8	1
Hexachlorobutadiene	ND		ug/kg	7.4	0.31	1
Isopropylbenzene	ND		ug/kg	1.8	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.20	1
Naphthalene	ND		ug/kg	7.4	1.2	1
Acrylonitrile	ND		ug/kg	7.4	2.1	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14 Date Collected: 10/12/21 13:30

Client ID: B-8 (7-8) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.8	0.32	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.7	0.60	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.7	0.50	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.7	0.36	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.7	0.62	1
1,4-Dioxane	ND		ug/kg	150	65.	1
p-Diethylbenzene	ND		ug/kg	3.7	0.33	1
p-Ethyltoluene	ND		ug/kg	3.7	0.71	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.35	1
Ethyl ether	ND		ug/kg	3.7	0.63	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.2	2.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	117		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15
Client ID: B-7 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:35
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 20:21
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.7	4.0	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.25	1
Chloroform	0.37	J	ug/kg	2.6	0.24	1
Carbon tetrachloride	ND		ug/kg	1.7	0.40	1
1,2-Dichloropropane	ND		ug/kg	1.7	0.22	1
Dibromochloromethane	ND		ug/kg	1.7	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.47	1
Tetrachloroethene	ND		ug/kg	0.87	0.34	1
Chlorobenzene	ND		ug/kg	0.87	0.22	1
Trichlorofluoromethane	ND		ug/kg	7.0	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.45	1
1,1,1-Trichloroethane	ND		ug/kg	0.87	0.29	1
Bromodichloromethane	ND		ug/kg	0.87	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.48	1
cis-1,3-Dichloropropene	ND		ug/kg	0.87	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	0.87	0.28	1
1,1-Dichloropropene	ND		ug/kg	0.87	0.28	1
Bromoform	ND		ug/kg	7.0	0.43	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.87	0.29	1
Benzene	1.2		ug/kg	0.87	0.29	1
Toluene	ND		ug/kg	1.7	0.95	1
Ethylbenzene	ND		ug/kg	1.7	0.25	1
Chloromethane	ND		ug/kg	7.0	1.6	1
Bromomethane	ND		ug/kg	3.5	1.0	1
Vinyl chloride	ND		ug/kg	1.7	0.58	1
Chloroethane	ND		ug/kg	3.5	0.79	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.24	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15 Date Collected: 10/12/21 12:35

Client ID: B-7 (4-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.87	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	3.5	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	3.5	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	3.5	0.30	1
Methyl tert butyl ether	1.0	J	ug/kg	3.5	0.35	1
p/m-Xylene	ND		ug/kg	3.5	0.98	1
o-Xylene	ND		ug/kg	1.7	0.51	1
Xylenes, Total	ND		ug/kg	1.7	0.51	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	1.7	0.24	1
Dibromomethane	ND		ug/kg	3.5	0.42	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	17	1.6	1
Acetone	ND		ug/kg	17	8.4	1
Carbon disulfide	ND		ug/kg	17	8.0	1
2-Butanone	ND		ug/kg	17	3.9	1
Vinyl acetate	ND		ug/kg	17	3.8	1
4-Methyl-2-pentanone	ND		ug/kg	17	2.2	1
1,2,3-Trichloropropane	ND		ug/kg	3.5	0.22	1
2-Hexanone	ND		ug/kg	17	2.1	1
Bromochloromethane	ND		ug/kg	3.5	0.36	1
2,2-Dichloropropane	ND		ug/kg	3.5	0.35	1
1,2-Dibromoethane	ND		ug/kg	1.7	0.49	1
1,3-Dichloropropane	ND		ug/kg	3.5	0.29	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.87	0.23	1
Bromobenzene	ND		ug/kg	3.5	0.25	1
n-Butylbenzene	ND		ug/kg	1.7	0.29	1
sec-Butylbenzene	ND		ug/kg	1.7	0.26	1
tert-Butylbenzene	ND		ug/kg	3.5	0.21	1
o-Chlorotoluene	ND		ug/kg	3.5	0.33	1
p-Chlorotoluene	ND		ug/kg	3.5	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	1.7	1
Hexachlorobutadiene	ND		ug/kg	7.0	0.30	1
Isopropylbenzene	ND		ug/kg	1.7	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.7	0.19	1
Naphthalene	ND		ug/kg	7.0	1.1	1
Acrylonitrile	ND		ug/kg	7.0	2.0	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15 Date Collected: 10/12/21 12:35

Client ID: B-7 (4-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.7	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.5	0.56	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.5	0.48	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.5	0.34	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.5	0.58	1
1,4-Dioxane	ND		ug/kg	140	61.	1
p-Diethylbenzene	ND		ug/kg	3.5	0.31	1
p-Ethyltoluene	ND		ug/kg	3.5	0.67	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.5	0.33	1
Ethyl ether	ND		ug/kg	3.5	0.60	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.7	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	118		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16
Client ID: B-11 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 20:47
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.4	3.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.24	1
Chloroform	ND		ug/kg	2.5	0.24	1
Carbon tetrachloride	ND		ug/kg	1.7	0.39	1
1,2-Dichloropropane	ND		ug/kg	1.7	0.21	1
Dibromochloromethane	ND		ug/kg	1.7	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.45	1
Tetrachloroethene	ND		ug/kg	0.84	0.33	1
Chlorobenzene	ND		ug/kg	0.84	0.21	1
Trichlorofluoromethane	ND		ug/kg	6.8	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.43	1
1,1,1-Trichloroethane	ND		ug/kg	0.84	0.28	1
Bromodichloromethane	ND		ug/kg	0.84	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.46	1
cis-1,3-Dichloropropene	ND		ug/kg	0.84	0.27	1
1,3-Dichloropropene, Total	ND		ug/kg	0.84	0.27	1
1,1-Dichloropropene	ND		ug/kg	0.84	0.27	1
Bromoform	ND		ug/kg	6.8	0.42	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.84	0.28	1
Benzene	ND		ug/kg	0.84	0.28	1
Toluene	ND		ug/kg	1.7	0.92	1
Ethylbenzene	ND		ug/kg	1.7	0.24	1
Chloromethane	ND		ug/kg	6.8	1.6	1
Bromomethane	ND		ug/kg	3.4	0.98	1
Vinyl chloride	ND		ug/kg	1.7	0.57	1
Chloroethane	ND		ug/kg	3.4	0.76	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	2.5	0.23	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16 Date Collected: 10/12/21 12:55

Client ID: B-11 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.84	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	3.4	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	3.4	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	3.4	0.29	1
Methyl tert butyl ether	ND		ug/kg	3.4	0.34	1
p/m-Xylene	ND		ug/kg	3.4	0.95	1
o-Xylene	ND		ug/kg	1.7	0.49	1
Xylenes, Total	ND		ug/kg	1.7	0.49	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.30	1
1,2-Dichloroethene, Total	ND		ug/kg	1.7	0.23	1
Dibromomethane	ND		ug/kg	3.4	0.40	1
Styrene	ND		ug/kg	1.7	0.33	1
Dichlorodifluoromethane	ND		ug/kg	17	1.5	1
Acetone	ND		ug/kg	17	8.1	1
Carbon disulfide	ND		ug/kg	17	7.7	1
2-Butanone	ND		ug/kg	17	3.8	1
Vinyl acetate	ND		ug/kg	17	3.6	1
4-Methyl-2-pentanone	ND		ug/kg	17	2.2	1
1,2,3-Trichloropropane	ND		ug/kg	3.4	0.21	1
2-Hexanone	ND		ug/kg	17	2.0	1
Bromochloromethane	ND		ug/kg	3.4	0.35	1
2,2-Dichloropropane	ND		ug/kg	3.4	0.34	1
1,2-Dibromoethane	ND		ug/kg	1.7	0.47	1
1,3-Dichloropropane	ND		ug/kg	3.4	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.84	0.22	1
Bromobenzene	ND		ug/kg	3.4	0.24	1
n-Butylbenzene	ND		ug/kg	1.7	0.28	1
sec-Butylbenzene	ND		ug/kg	1.7	0.25	1
tert-Butylbenzene	ND		ug/kg	3.4	0.20	1
o-Chlorotoluene	ND		ug/kg	3.4	0.32	1
p-Chlorotoluene	ND		ug/kg	3.4	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	1.7	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.28	1
Isopropylbenzene	ND		ug/kg	1.7	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.7	0.18	1
Naphthalene	ND		ug/kg	6.8	1.1	1
Acrylonitrile	ND		ug/kg	6.8	1.9	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16 Date Collected: 10/12/21 12:55

Client ID: B-11 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.7	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.4	0.54	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.4	0.46	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.4	0.33	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.4	0.56	1
1,4-Dioxane	ND		ug/kg	140	59.	1
p-Diethylbenzene	ND		ug/kg	3.4	0.30	1
p-Ethyltoluene	ND		ug/kg	3.4	0.65	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.4	0.32	1
Ethyl ether	ND		ug/kg	3.4	0.58	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.4	2.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	118		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17
Client ID: B-11 (6-7)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 15:40
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17 Date Collected: 10/12/21 13:00

Client ID: B-11 (6-7) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.23	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.22	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17 Date Collected: 10/12/21 13:00

Client ID: B-11 (6-7) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	1
1,4-Dioxane	ND		ug/kg	90	40.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.22	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	110		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19
Client ID: B-13 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 14:05
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 16:08
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19 Date Collected: 10/12/21 14:05

Client ID: B-13 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.25	1
p/m-Xylene	ND		ug/kg	2.4	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	8.8	J	ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19 Date Collected: 10/12/21 14:05

Client ID: B-13 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	110		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21
Client ID: B-13 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 16:35
Analyst: JC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	3.6	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.23	1
Chloroform	ND		ug/kg	2.3	0.22	1
Carbon tetrachloride	ND		ug/kg	1.6	0.36	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.20	1
Dibromochloromethane	ND		ug/kg	1.6	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.42	1
Tetrachloroethene	ND		ug/kg	0.78	0.31	1
Chlorobenzene	ND		ug/kg	0.78	0.20	1
Trichlorofluoromethane	ND		ug/kg	6.2	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	0.26	1
Bromodichloromethane	ND		ug/kg	0.78	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.43	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	0.78	0.25	1
1,1-Dichloropropene	ND		ug/kg	0.78	0.25	1
Bromoform	ND		ug/kg	6.2	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	0.26	1
Benzene	ND		ug/kg	0.78	0.26	1
Toluene	ND		ug/kg	1.6	0.85	1
Ethylbenzene	ND		ug/kg	1.6	0.22	1
Chloromethane	ND		ug/kg	6.2	1.4	1
Bromomethane	ND		ug/kg	3.1	0.91	1
Vinyl chloride	ND		ug/kg	1.6	0.52	1
Chloroethane	ND		ug/kg	3.1	0.70	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21 Date Collected: 10/12/21 15:15

Client ID: B-13 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.78	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.27	1
Methyl tert butyl ether	0.34	J	ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.87	1
o-Xylene	ND		ug/kg	1.6	0.45	1
Xylenes, Total	ND		ug/kg	1.6	0.45	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.27	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	0.21	1
Dibromomethane	ND		ug/kg	3.1	0.37	1
Styrene	ND		ug/kg	1.6	0.31	1
Dichlorodifluoromethane	ND		ug/kg	16	1.4	1
Acetone	51		ug/kg	16	7.5	1
Carbon disulfide	ND		ug/kg	16	7.1	1
2-Butanone	5.5	J	ug/kg	16	3.5	1
Vinyl acetate	ND		ug/kg	16	3.4	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.0	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	0.20	1
2-Hexanone	ND		ug/kg	16	1.8	1
Bromochloromethane	ND		ug/kg	3.1	0.32	1
2,2-Dichloropropane	ND		ug/kg	3.1	0.32	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.44	1
1,3-Dichloropropane	ND		ug/kg	3.1	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.78	0.21	1
Bromobenzene	ND		ug/kg	3.1	0.23	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
o-Chlorotoluene	ND		ug/kg	3.1	0.30	1
p-Chlorotoluene	ND		ug/kg	3.1	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	1.6	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.26	1
Isopropylbenzene	ND		ug/kg	1.6	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.17	1
Naphthalene	ND		ug/kg	6.2	1.0	1
Acrylonitrile	ND		ug/kg	6.2	1.8	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21 Date Collected: 10/12/21 15:15

Client ID: B-13 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.6	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	0.50	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	0.42	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1
1,4-Dioxane	ND		ug/kg	120	55.	1
p-Diethylbenzene	ND		ug/kg	3.1	0.28	1
p-Ethyltoluene	ND		ug/kg	3.1	0.60	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.1	0.30	1
Ethyl ether	ND		ug/kg	3.1	0.53	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.8	2.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	109		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22
Client ID: B-14 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 17:03
Analyst: JC
Percent Solids: 53%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	17	7.9	1
1,1-Dichloroethane	ND		ug/kg	3.4	0.50	1
Chloroform	ND		ug/kg	5.2	0.48	1
Carbon tetrachloride	ND		ug/kg	3.4	0.79	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.43	1
Dibromochloromethane	ND		ug/kg	3.4	0.48	1
1,1,2-Trichloroethane	ND		ug/kg	3.4	0.92	1
Tetrachloroethene	ND		ug/kg	1.7	0.67	1
Chlorobenzene	ND		ug/kg	1.7	0.44	1
Trichlorofluoromethane	ND		ug/kg	14	2.4	1
1,2-Dichloroethane	ND		ug/kg	3.4	0.88	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	0.57	1
Bromodichloromethane	ND		ug/kg	1.7	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	3.4	0.94	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	0.54	1
1,3-Dichloropropene, Total	ND		ug/kg	1.7	0.54	1
1,1-Dichloropropene	ND		ug/kg	1.7	0.55	1
Bromoform	ND		ug/kg	14	0.85	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	0.57	1
Benzene	ND		ug/kg	1.7	0.57	1
Toluene	ND		ug/kg	3.4	1.9	1
Ethylbenzene	ND		ug/kg	3.4	0.48	1
Chloromethane	ND		ug/kg	14	3.2	1
Bromomethane	ND		ug/kg	6.9	2.0	1
Vinyl chloride	ND		ug/kg	3.4	1.2	1
Chloroethane	ND		ug/kg	6.9	1.6	1
1,1-Dichloroethene	ND		ug/kg	3.4	0.82	1
trans-1,2-Dichloroethene	ND		ug/kg	5.2	0.47	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22 Date Collected: 10/12/21 15:30

Client ID: B-14 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.7	0.47	1
1,2-Dichlorobenzene	ND		ug/kg	6.9	0.50	1
1,3-Dichlorobenzene	ND		ug/kg	6.9	0.51	1
1,4-Dichlorobenzene	ND		ug/kg	6.9	0.59	1
Methyl tert butyl ether	6.7	J	ug/kg	6.9	0.69	1
p/m-Xylene	ND		ug/kg	6.9	1.9	1
o-Xylene	ND		ug/kg	3.4	1.0	1
Xylenes, Total	ND		ug/kg	3.4	1.0	1
cis-1,2-Dichloroethene	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethene, Total	ND		ug/kg	3.4	0.47	1
Dibromomethane	ND		ug/kg	6.9	0.82	1
Styrene	ND		ug/kg	3.4	0.67	1
Dichlorodifluoromethane	ND		ug/kg	34	3.2	1
Acetone	290		ug/kg	34	16.	1
Carbon disulfide	ND		ug/kg	34	16.	1
2-Butanone	48		ug/kg	34	7.6	1
Vinyl acetate	ND		ug/kg	34	7.4	1
4-Methyl-2-pentanone	ND		ug/kg	34	4.4	1
1,2,3-Trichloropropane	ND		ug/kg	6.9	0.44	1
2-Hexanone	ND		ug/kg	34	4.1	1
Bromochloromethane	ND		ug/kg	6.9	0.70	1
2,2-Dichloropropane	ND		ug/kg	6.9	0.70	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.96	1
1,3-Dichloropropane	ND		ug/kg	6.9	0.57	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	0.45	1
Bromobenzene	ND		ug/kg	6.9	0.50	1
n-Butylbenzene	ND		ug/kg	3.4	0.57	1
sec-Butylbenzene	ND		ug/kg	3.4	0.50	1
tert-Butylbenzene	ND		ug/kg	6.9	0.41	1
o-Chlorotoluene	ND		ug/kg	6.9	0.66	1
p-Chlorotoluene	ND		ug/kg	6.9	0.37	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	10	3.4	1
Hexachlorobutadiene	ND		ug/kg	14	0.58	1
Isopropylbenzene	ND		ug/kg	3.4	0.38	1
p-Isopropyltoluene	ND		ug/kg	3.4	0.38	1
Naphthalene	ND		ug/kg	14	2.2	1
Acrylonitrile	ND		ug/kg	14	4.0	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22 Date Collected: 10/12/21 15:30

Client ID: B-14 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.4	0.59	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.9	1.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.9	0.94	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.9	0.66	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.9	1.1	1
1,4-Dioxane	ND		ug/kg	280	120	1
p-Diethylbenzene	ND		ug/kg	6.9	0.61	1
p-Ethyltoluene	ND		ug/kg	6.9	1.3	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.9	0.66	1
Ethyl ether	ND		ug/kg	6.9	1.2	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	17	4.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	107		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25
Client ID: B-15 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 17:30
Analyst: JC
Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	13	5.9	1
1,1-Dichloroethane	ND		ug/kg	2.6	0.37	1
Chloroform	ND		ug/kg	3.8	0.36	1
Carbon tetrachloride	ND		ug/kg	2.6	0.59	1
1,2-Dichloropropane	ND		ug/kg	2.6	0.32	1
Dibromochloromethane	ND		ug/kg	2.6	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	2.6	0.68	1
Tetrachloroethene	ND		ug/kg	1.3	0.50	1
Chlorobenzene	ND		ug/kg	1.3	0.32	1
Trichlorofluoromethane	ND		ug/kg	10	1.8	1
1,2-Dichloroethane	ND		ug/kg	2.6	0.66	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.43	1
Bromodichloromethane	ND		ug/kg	1.3	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	2.6	0.70	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.40	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.40	1
1,1-Dichloropropene	ND		ug/kg	1.3	0.41	1
Bromoform	ND		ug/kg	10	0.63	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.42	1
Benzene	ND		ug/kg	1.3	0.42	1
Toluene	ND		ug/kg	2.6	1.4	1
Ethylbenzene	ND		ug/kg	2.6	0.36	1
Chloromethane	ND		ug/kg	10	2.4	1
Bromomethane	ND		ug/kg	5.1	1.5	1
Vinyl chloride	ND		ug/kg	2.6	0.86	1
Chloroethane	ND		ug/kg	5.1	1.2	1
1,1-Dichloroethene	ND		ug/kg	2.6	0.61	1
trans-1,2-Dichloroethene	ND		ug/kg	3.8	0.35	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25 Date Collected: 10/12/21 15:15

Client ID: B-15 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.35	1
1,2-Dichlorobenzene	ND		ug/kg	5.1	0.37	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	0.38	1
1,4-Dichlorobenzene	ND		ug/kg	5.1	0.44	1
Methyl tert butyl ether	ND		ug/kg	5.1	0.51	1
p/m-Xylene	ND		ug/kg	5.1	1.4	1
o-Xylene	ND		ug/kg	2.6	0.74	1
Xylenes, Total	ND		ug/kg	2.6	0.74	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.45	1
1,2-Dichloroethene, Total	ND		ug/kg	2.6	0.35	1
Dibromomethane	ND		ug/kg	5.1	0.61	1
Styrene	ND		ug/kg	2.6	0.50	1
Dichlorodifluoromethane	ND		ug/kg	26	2.3	1
Acetone	ND		ug/kg	26	12.	1
Carbon disulfide	ND		ug/kg	26	12.	1
2-Butanone	ND		ug/kg	26	5.7	1
Vinyl acetate	ND		ug/kg	26	5.5	1
4-Methyl-2-pentanone	ND		ug/kg	26	3.3	1
1,2,3-Trichloropropane	ND		ug/kg	5.1	0.32	1
2-Hexanone	ND		ug/kg	26	3.0	1
Bromochloromethane	ND		ug/kg	5.1	0.52	1
2,2-Dichloropropane	ND		ug/kg	5.1	0.52	1
1,2-Dibromoethane	ND		ug/kg	2.6	0.71	1
1,3-Dichloropropane	ND		ug/kg	5.1	0.43	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.34	1
Bromobenzene	ND		ug/kg	5.1	0.37	1
n-Butylbenzene	ND		ug/kg	2.6	0.43	1
sec-Butylbenzene	ND		ug/kg	2.6	0.37	1
tert-Butylbenzene	ND		ug/kg	5.1	0.30	1
o-Chlorotoluene	ND		ug/kg	5.1	0.49	1
p-Chlorotoluene	ND		ug/kg	5.1	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.7	2.6	1
Hexachlorobutadiene	ND		ug/kg	10	0.43	1
Isopropylbenzene	ND		ug/kg	2.6	0.28	1
p-Isopropyltoluene	ND		ug/kg	2.6	0.28	1
Naphthalene	ND		ug/kg	10	1.7	1
Acrylonitrile	ND		ug/kg	10	2.9	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25
Client ID: B-15 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.6	0.44	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.1	0.82	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.1	0.70	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.1	0.49	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.1	0.86	1
1,4-Dioxane	ND		ug/kg	200	90.	1
p-Diethylbenzene	ND		ug/kg	5.1	0.45	1
p-Ethyltoluene	ND		ug/kg	5.1	0.98	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.49	1
Ethyl ether	ND		ug/kg	5.1	0.87	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	13	3.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	109		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26
Client ID: B-16 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 17:57
Analyst: JC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26 Date Collected: 10/12/21 15:40

Client ID: B-16 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.17	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26
Client ID: B-16 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.22	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	107		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27
Client ID: B-16 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/24/21 18:25
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.1	0.97	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27 Date Collected: 10/12/21 15:45

Client ID: B-16 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27 Date Collected: 10/12/21 15:45

Client ID: B-16 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	109		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-28
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/12/21 08:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/24/21 12:14
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-28 Date Collected: 10/12/21 08:45

Client ID: FB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-28 Date Collected: 10/12/21 08:45

Client ID: FB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-29
Client ID: TB
Sample Location: BRONX, NY

Date Collected: 10/11/21 00:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/24/21 12:34
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-29 Date Collected: 10/11/21 00:00

Client ID: TB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-29 Date Collected: 10/11/21 00:00

Client ID: TB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	109		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30
Client ID: B-10 (0.5-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 09:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/21 15:29
Analyst: KJD
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	410	190	1
1,1-Dichloroethane	ND		ug/kg	82	12.	1
Chloroform	11	J	ug/kg	120	11.	1
Carbon tetrachloride	ND		ug/kg	82	19.	1
1,2-Dichloropropane	ND		ug/kg	82	10.	1
Dibromochloromethane	ND		ug/kg	82	11.	1
1,1,2-Trichloroethane	ND		ug/kg	82	22.	1
Tetrachloroethene	ND		ug/kg	41	16.	1
Chlorobenzene	ND		ug/kg	41	10.	1
Trichlorofluoromethane	ND		ug/kg	330	57.	1
1,2-Dichloroethane	ND		ug/kg	82	21.	1
1,1,1-Trichloroethane	ND		ug/kg	41	14.	1
Bromodichloromethane	ND		ug/kg	41	8.9	1
trans-1,3-Dichloropropene	ND		ug/kg	82	22.	1
cis-1,3-Dichloropropene	ND		ug/kg	41	13.	1
1,3-Dichloropropene, Total	ND		ug/kg	41	13.	1
1,1-Dichloropropene	ND		ug/kg	41	13.	1
Bromoform	ND		ug/kg	330	20.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	41	14.	1
Benzene	1600		ug/kg	41	14.	1
Toluene	1500		ug/kg	82	44.	1
Ethylbenzene	880		ug/kg	82	11.	1
Chloromethane	ND		ug/kg	330	76.	1
Bromomethane	ND		ug/kg	160	47.	1
Vinyl chloride	ND		ug/kg	82	27.	1
Chloroethane	ND		ug/kg	160	37.	1
1,1-Dichloroethene	ND		ug/kg	82	19.	1
trans-1,2-Dichloroethene	ND		ug/kg	120	11.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30 Date Collected: 10/13/21 09:00

Client ID: B-10 (0.5-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	41	11.	1
1,2-Dichlorobenzene	ND		ug/kg	160	12.	1
1,3-Dichlorobenzene	ND		ug/kg	160	12.	1
1,4-Dichlorobenzene	ND		ug/kg	160	14.	1
Methyl tert butyl ether	ND		ug/kg	160	16.	1
p/m-Xylene	1900		ug/kg	160	46.	1
o-Xylene	510		ug/kg	82	24.	1
Xylenes, Total	2400		ug/kg	82	24.	1
cis-1,2-Dichloroethene	ND		ug/kg	82	14.	1
1,2-Dichloroethene, Total	ND		ug/kg	82	11.	1
Dibromomethane	ND		ug/kg	160	19.	1
Styrene	ND		ug/kg	82	16.	1
Dichlorodifluoromethane	ND		ug/kg	820	74.	1
Acetone	ND		ug/kg	820	390	1
Carbon disulfide	ND		ug/kg	820	370	1
2-Butanone	360	J	ug/kg	820	180	1
Vinyl acetate	ND		ug/kg	820	180	1
4-Methyl-2-pentanone	ND		ug/kg	820	100	1
1,2,3-Trichloropropane	ND		ug/kg	160	10.	1
2-Hexanone	ND		ug/kg	820	96.	1
Bromochloromethane	ND		ug/kg	160	17.	1
2,2-Dichloropropane	ND		ug/kg	160	16.	1
1,2-Dibromoethane	ND		ug/kg	82	23.	1
1,3-Dichloropropane	ND		ug/kg	160	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	41	11.	1
Bromobenzene	ND		ug/kg	160	12.	1
n-Butylbenzene	58	J	ug/kg	82	14.	1
sec-Butylbenzene	13	J	ug/kg	82	12.	1
tert-Butylbenzene	ND		ug/kg	160	9.6	1
o-Chlorotoluene	ND		ug/kg	160	16.	1
p-Chlorotoluene	ND		ug/kg	160	8.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	240	81.	1
Hexachlorobutadiene	ND		ug/kg	330	14.	1
Isopropylbenzene	120		ug/kg	82	8.9	1
p-Isopropyltoluene	22	J	ug/kg	82	8.9	1
Naphthalene	330		ug/kg	330	53.	1
Acrylonitrile	ND		ug/kg	330	94.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30
Client ID: B-10 (0.5-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 09:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	55	J	ug/kg	82	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	160	26.	1
1,2,4-Trichlorobenzene	ND		ug/kg	160	22.	1
1,3,5-Trimethylbenzene	260		ug/kg	160	16.	1
1,2,4-Trimethylbenzene	450		ug/kg	160	27.	1
1,4-Dioxane	ND		ug/kg	6500	2900	1
p-Diethylbenzene	200		ug/kg	160	14.	1
p-Ethyltoluene	230		ug/kg	160	31.	1
1,2,4,5-Tetramethylbenzene	90	J	ug/kg	160	16.	1
Ethyl ether	ND		ug/kg	160	28.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	410	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	110		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30
Client ID: B-10 (0.5-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 09:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/21 14:57
Analyst: AJK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.34	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.75	0.29	1
Chlorobenzene	ND		ug/kg	0.75	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.38	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	0.25	1
Bromodichloromethane	ND		ug/kg	0.75	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.75	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.75	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	0.25	1
Benzene	2.3		ug/kg	0.75	0.25	1
Toluene	ND		ug/kg	1.5	0.81	1
Ethylbenzene	0.31	J	ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.87	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.67	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30 Date Collected: 10/13/21 09:00

Client ID: B-10 (0.5-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.75	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.84	1
o-Xylene	0.67	J	ug/kg	1.5	0.43	1
Xylenes, Total	0.67	J	ug/kg	1.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.20	1
Dibromomethane	ND		ug/kg	3.0	0.36	1
Styrene	ND		ug/kg	1.5	0.29	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	26		ug/kg	15	7.2	1
Carbon disulfide	ND		ug/kg	15	6.8	1
2-Butanone	ND		ug/kg	15	3.3	1
Vinyl acetate	ND		ug/kg	15	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.30	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.75	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
o-Chlorotoluene	ND		ug/kg	3.0	0.28	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.25	1
Isopropylbenzene	1.0	J	ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.0	0.97	1
Acrylonitrile	ND		ug/kg	6.0	1.7	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30
Client ID: B-10 (0.5-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 09:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.40	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
1,4-Dioxane	ND		ug/kg	120	52.	1
p-Diethylbenzene	ND		ug/kg	3.0	0.26	1
p-Ethyltoluene	ND		ug/kg	3.0	0.57	1
1,2,4,5-Tetramethylbenzene	0.56	J	ug/kg	3.0	0.28	1
Ethyl ether	ND		ug/kg	3.0	0.51	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.5	2.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32
Client ID: B-22 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/21 01:51
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	0.66	J	ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.92	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.3	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.77	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32 Date Collected: 10/13/21 10:50

Client ID: B-22 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.86	1
Acrylonitrile	ND		ug/kg	5.3	1.5	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32 Date Collected: 10/13/21 10:50

Client ID: B-22 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.51	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	115		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33
Client ID: B-22 (14-15)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/21 02:18
Analyst: JC
Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	3.6	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.23	1
Chloroform	ND		ug/kg	2.3	0.22	1
Carbon tetrachloride	ND		ug/kg	1.6	0.36	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.20	1
Dibromochloromethane	ND		ug/kg	1.6	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.42	1
Tetrachloroethene	ND		ug/kg	0.78	0.31	1
Chlorobenzene	ND		ug/kg	0.78	0.20	1
Trichlorofluoromethane	ND		ug/kg	6.2	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	0.26	1
Bromodichloromethane	ND		ug/kg	0.78	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.43	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	0.78	0.25	1
1,1-Dichloropropene	ND		ug/kg	0.78	0.25	1
Bromoform	ND		ug/kg	6.2	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	0.26	1
Benzene	ND		ug/kg	0.78	0.26	1
Toluene	ND		ug/kg	1.6	0.85	1
Ethylbenzene	ND		ug/kg	1.6	0.22	1
Chloromethane	ND		ug/kg	6.2	1.4	1
Bromomethane	ND		ug/kg	3.1	0.91	1
Vinyl chloride	ND		ug/kg	1.6	0.52	1
Chloroethane	ND		ug/kg	3.1	0.71	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33
Client ID: B-22 (14-15)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.78	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.27	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.31	1
p/m-Xylene	ND		ug/kg	3.1	0.88	1
o-Xylene	ND		ug/kg	1.6	0.45	1
Xylenes, Total	ND		ug/kg	1.6	0.45	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.27	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	0.21	1
Dibromomethane	ND		ug/kg	3.1	0.37	1
Styrene	ND		ug/kg	1.6	0.31	1
Dichlorodifluoromethane	ND		ug/kg	16	1.4	1
Acetone	110		ug/kg	16	7.5	1
Carbon disulfide	ND		ug/kg	16	7.1	1
2-Butanone	16		ug/kg	16	3.5	1
Vinyl acetate	ND		ug/kg	16	3.4	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.0	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	0.20	1
2-Hexanone	ND		ug/kg	16	1.8	1
Bromochloromethane	ND		ug/kg	3.1	0.32	1
2,2-Dichloropropane	ND		ug/kg	3.1	0.32	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.44	1
1,3-Dichloropropane	ND		ug/kg	3.1	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.78	0.21	1
Bromobenzene	ND		ug/kg	3.1	0.23	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
o-Chlorotoluene	ND		ug/kg	3.1	0.30	1
p-Chlorotoluene	ND		ug/kg	3.1	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	1.6	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.26	1
Isopropylbenzene	ND		ug/kg	1.6	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.17	1
Naphthalene	ND		ug/kg	6.2	1.0	1
Acrylonitrile	ND		ug/kg	6.2	1.8	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33
Client ID: B-22 (14-15)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.6	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	0.50	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	0.42	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1
1,4-Dioxane	ND		ug/kg	120	55.	1
p-Diethylbenzene	ND		ug/kg	3.1	0.28	1
p-Ethyltoluene	ND		ug/kg	3.1	0.60	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.1	0.30	1
Ethyl ether	ND		ug/kg	3.1	0.53	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.8	2.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	114		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35
Client ID: B-23 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/21 02:45
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	0.23	J	ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35 Date Collected: 10/13/21 10:20

Client ID: B-23 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.77	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35 Date Collected: 10/13/21 10:20

Client ID: B-23 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	95	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	115		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36
Client ID: B-24 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/21 03:12
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	0.41	J	ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.91	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36 Date Collected: 10/13/21 11:50

Client ID: B-24 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.3	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.85	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36 Date Collected: 10/13/21 11:50

Client ID: B-24 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	117		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37
Client ID: B-24 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/26/21 12:34
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	0.42	J	ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.26	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37 Date Collected: 10/13/21 11:25

Client ID: B-24 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.68	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.39	1
Xylenes, Total	ND		ug/kg	1.4	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.26	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	ND		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37 Date Collected: 10/13/21 11:25

Client ID: B-24 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	113		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-38
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/13/21 08:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/19/21 15:56
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-38 Date Collected: 10/13/21 08:00

Client ID: FB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-38 Date Collected: 10/13/21 08:00

Client ID: FB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-39
Client ID: TB
Sample Location: BRONX, NY

Date Collected: 10/11/21 00:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/19/21 16:19
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-39 Date Collected: 10/11/21 00:00

Client ID: TB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-39 Date Collected: 10/11/21 00:00

Client ID: TB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41
Client ID: B-17 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/21 06:23
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	0.41	J	ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	1.4		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	0.73	J	ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.4	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41 Date Collected: 10/14/21 10:00

Client ID: B-17 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	1.4	J	ug/kg	2.4	0.66	1
o-Xylene	1.7		ug/kg	1.2	0.34	1
Xylenes, Total	3.1	J	ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	16		ug/kg	1.2	0.20	1
sec-Butylbenzene	4.2		ug/kg	1.2	0.17	1
tert-Butylbenzene	0.31	J	ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.22	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	0.47	J	ug/kg	1.2	0.13	1
p-Isopropyltoluene	3.8		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.77	1
Acrylonitrile	ND		ug/kg	4.7	1.4	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41 Date Collected: 10/14/21 10:00

Client ID: B-17 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	1.5		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	4.2		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	4.8		ug/kg	2.4	0.39	1
1,4-Dioxane	ND		ug/kg	94	41.	1
p-Diethylbenzene	66		ug/kg	2.4	0.21	1
p-Ethyltoluene	5.4		ug/kg	2.4	0.45	1
1,2,4,5-Tetramethylbenzene	18		ug/kg	2.4	0.22	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	93		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42
Client ID: B-18 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/21 05:45
Analyst: NLK
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	0.30	J	ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	0.68		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42 Date Collected: 10/14/21 10:55

Client ID: B-18 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.79	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42 Date Collected: 10/14/21 10:55

Client ID: B-18 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	97	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	95		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43
Client ID: B-20 (11-12)
Sample Location: BRONX, NY

Date Collected: 10/14/21 11:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/27/21 05:07
Analyst: NLK
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	0.31	J	ug/kg	1.9	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.87	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.21	1
Benzene	ND		ug/kg	0.62	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43 Date Collected: 10/14/21 11:40

Client ID: B-20 (11-12) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	39		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	8.0	J	ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.81	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43
Client ID: B-20 (11-12)
Sample Location: BRONX, NY

Date Collected: 10/14/21 11:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	91		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/19/21 08:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 38-39 Batch: WG1560657-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/19/21 08:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 38-39 Batch: WG1560657-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/19/21 08:37
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 38-39 Batch: WG1560657-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:41
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,09,11-16 Batch: WG1562495-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:41
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,09,11-16 Batch: WG1562495-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:41
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,09,11-16 Batch: WG1562495-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	111		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:46
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17,19,21-22,25-27 Batch: WG1562573-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:46
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17,19,21-22,25-27 Batch: WG1562573-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:46
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17,19,21-22,25-27 Batch: WG1562573-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	109		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/25/21 10:33
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-04,06 Batch: WG1562596-10					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	7.0	J	ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/25/21 10:33
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-04,06 Batch: WG1562596-10					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/25/21 10:33
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-04,06 Batch: WG1562596-10					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:41
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-06 Batch: WG1562596-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:41
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-06 Batch: WG1562596-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 14:41
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-06 Batch: WG1562596-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	111		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 09:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 28-29 Batch: WG1562644-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 09:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 28-29 Batch: WG1562644-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/24/21 09:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 28-29 Batch: WG1562644-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/25/21 10:33
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1563156-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.14	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/25/21 10:33
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1563156-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/25/21 10:33
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1563156-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/25/21 22:40
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 32-33,35-36 Batch: WG1563204-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/25/21 22:40
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 32-33,35-36 Batch: WG1563204-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/25/21 22:40
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 32-33,35-36 Batch: WG1563204-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	116		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 30 Batch: WG1563538-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	8.5	J	ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 30 Batch: WG1563538-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 30 Batch: WG1563538-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	112		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,05 Batch: WG1563539-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.17	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,05 Batch: WG1563539-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 07:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,05 Batch: WG1563539-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	112		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 09:50
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 37 Batch: WG1563561-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.25	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 09:50
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 37 Batch: WG1563561-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 09:50
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 37 Batch: WG1563561-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	108		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 21:29
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 41-43 Batch: WG1563699-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.30	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 21:29
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 41-43 Batch: WG1563699-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/26/21 21:29
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 41-43 Batch: WG1563699-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	90		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/21 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 30 Batch: WG1564015-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/21 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 30 Batch: WG1564015-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/27/21 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 30 Batch: WG1564015-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	111		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 38-39 Batch: WG1560657-3 WG1560657-4								
Methylene chloride	99		98		70-130	1		20
1,1-Dichloroethane	96		97		70-130	1		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	92		95		70-130	3		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	96		100		70-130	4		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	97		100		70-130	3		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	99		99		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	96		99		70-130	3		20
1,1-Dichloropropene	100		99		70-130	1		20
Bromoform	110		110		54-136	0		20
1,1,2,2-Tetrachloroethane	98		100		67-130	2		20
Benzene	97		97		70-130	0		20
Toluene	99		98		70-130	1		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	86		85		64-130	1		20
Bromomethane	97		100		39-139	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 38-39 Batch: WG1560657-3 WG1560657-4								
Vinyl chloride	97		98		55-140	1		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	99		97		61-145	2		20
trans-1,2-Dichloroethene	99		100		70-130	1		20
Trichloroethene	99		100		70-130	1		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	82		87		63-130	6		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	95		100		70-130	5		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	81		88		70-130	8		20
Styrene	100		105		70-130	5		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	94		97		58-148	3		20
Carbon disulfide	89		89		51-130	0		20
2-Butanone	79		84		63-138	6		20
Vinyl acetate	82		87		70-130	6		20
4-Methyl-2-pentanone	83		97		59-130	16		20
2-Hexanone	82		91		57-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 38-39 Batch: WG1560657-3 WG1560657-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	100		110		70-130	10		20
1,3-Dichloropropane	98		100		70-130	2		20
1,1,1,2-Tetrachloroethane	110		110		64-130	0		20
Bromobenzene	110		120		70-130	9		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	100		110		41-144	10		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	76		92		70-130	19		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	76		92		70-130	19		20
1,2,4-Trichlorobenzene	90		98		70-130	9		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	138		150		56-162	8		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 38-39 Batch: WG1560657-3 WG1560657-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		110		70-130	10		20
Ethyl ether	79		81		59-134	3		20
trans-1,4-Dichloro-2-butene	84		86		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		104		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	103		101		70-130
Dibromofluoromethane	100		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,09,11-16 Batch: WG1562495-3 WG1562495-4								
Methylene chloride	91		90		70-130	1		30
1,1-Dichloroethane	103		101		70-130	2		30
Chloroform	109		107		70-130	2		30
Carbon tetrachloride	125		120		70-130	4		30
1,2-Dichloropropane	98		98		70-130	0		30
Dibromochloromethane	99		99		70-130	0		30
1,1,2-Trichloroethane	93		96		70-130	3		30
Tetrachloroethene	112		107		70-130	5		30
Chlorobenzene	101		100		70-130	1		30
Trichlorofluoromethane	127		121		70-139	5		30
1,2-Dichloroethane	108		109		70-130	1		30
1,1,1-Trichloroethane	122		118		70-130	3		30
Bromodichloromethane	109		110		70-130	1		30
trans-1,3-Dichloropropene	93		96		70-130	3		30
cis-1,3-Dichloropropene	94		95		70-130	1		30
1,1-Dichloropropene	110		107		70-130	3		30
Bromoform	90		93		70-130	3		30
1,1,2,2-Tetrachloroethane	85		90		70-130	6		30
Benzene	99		97		70-130	2		30
Toluene	99		97		70-130	2		30
Ethylbenzene	104		103		70-130	1		30
Chloromethane	102		99		52-130	3		30
Bromomethane	86		82		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,09,11-16 Batch: WG1562495-3 WG1562495-4								
Vinyl chloride	94		94		67-130	0		30
Chloroethane	93		91		50-151	2		30
1,1-Dichloroethene	101		100		65-135	1		30
trans-1,2-Dichloroethene	101		98		70-130	3		30
Trichloroethene	109		106		70-130	3		30
1,2-Dichlorobenzene	101		100		70-130	1		30
1,3-Dichlorobenzene	104		100		70-130	4		30
1,4-Dichlorobenzene	100		97		70-130	3		30
Methyl tert butyl ether	95		100		66-130	5		30
p/m-Xylene	108		106		70-130	2		30
o-Xylene	108		106		70-130	2		30
cis-1,2-Dichloroethene	99		99		70-130	0		30
Dibromomethane	98		100		70-130	2		30
Styrene	110		108		70-130	2		30
Dichlorodifluoromethane	110		106		30-146	4		30
Acetone	106		115		54-140	8		30
Carbon disulfide	92		92		59-130	0		30
2-Butanone	90		101		70-130	12		30
Vinyl acetate	92		96		70-130	4		30
4-Methyl-2-pentanone	73		79		70-130	8		30
1,2,3-Trichloropropane	87		92		68-130	6		30
2-Hexanone	83		90		70-130	8		30
Bromochloromethane	101		101		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,09,11-16 Batch: WG1562495-3 WG1562495-4								
2,2-Dichloropropane	117		113		70-130	3		30
1,2-Dibromoethane	90		92		70-130	2		30
1,3-Dichloropropane	93		96		69-130	3		30
1,1,1,2-Tetrachloroethane	114		113		70-130	1		30
Bromobenzene	100		97		70-130	3		30
n-Butylbenzene	111		106		70-130	5		30
sec-Butylbenzene	108		103		70-130	5		30
tert-Butylbenzene	109		104		70-130	5		30
o-Chlorotoluene	102		96		70-130	6		30
p-Chlorotoluene	104		100		70-130	4		30
1,2-Dibromo-3-chloropropane	79		84		68-130	6		30
Hexachlorobutadiene	114		108		67-130	5		30
Isopropylbenzene	106		103		70-130	3		30
p-Isopropyltoluene	112		108		70-130	4		30
Naphthalene	94		99		70-130	5		30
Acrylonitrile	81		89		70-130	9		30
n-Propylbenzene	105		102		70-130	3		30
1,2,3-Trichlorobenzene	104		104		70-130	0		30
1,2,4-Trichlorobenzene	108		105		70-130	3		30
1,3,5-Trimethylbenzene	109		105		70-130	4		30
1,2,4-Trimethylbenzene	109		105		70-130	4		30
1,4-Dioxane	74		85		65-136	14		30
p-Diethylbenzene	112		106		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,09,11-16 Batch: WG1562495-3 WG1562495-4								
p-Ethyltoluene	107		103		70-130	4		30
1,2,4,5-Tetramethylbenzene	110		105		70-130	5		30
Ethyl ether	79		81		67-130	3		30
trans-1,4-Dichloro-2-butene	94		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		111		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	106		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17,19,21-22,25-27 Batch: WG1562573-3 WG1562573-4								
Methylene chloride	**165**	Q	117		70-130	**34**	Q	30
1,1-Dichloroethane	103		101		70-130	2		30
Chloroform	101		101		70-130	0		30
Carbon tetrachloride	108		106		70-130	2		30
1,2-Dichloropropane	102		100		70-130	2		30
Dibromochloromethane	110		106		70-130	4		30
1,1,2-Trichloroethane	107		102		70-130	5		30
Tetrachloroethene	110		108		70-130	2		30
Chlorobenzene	105		103		70-130	2		30
Trichlorofluoromethane	87		83		70-139	5		30
1,2-Dichloroethane	100		98		70-130	2		30
1,1,1-Trichloroethane	110		108		70-130	2		30
Bromodichloromethane	106		105		70-130	1		30
trans-1,3-Dichloropropene	107		102		70-130	5		30
cis-1,3-Dichloropropene	103		101		70-130	2		30
1,1-Dichloropropene	107		105		70-130	2		30
Bromoform	89		88		70-130	1		30
1,1,2,2-Tetrachloroethane	106		102		70-130	4		30
Benzene	105		103		70-130	2		30
Toluene	97		96		70-130	1		30
Ethylbenzene	101		100		70-130	1		30
Chloromethane	106		106		52-130	0		30
Bromomethane	97		98		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17,19,21-22,25-27 Batch: WG1562573-3 WG1562573-4								
Vinyl chloride	104		99		67-130	5		30
Chloroethane	103		99		50-151	4		30
1,1-Dichloroethene	88		85		65-135	3		30
trans-1,2-Dichloroethene	96		97		70-130	1		30
Trichloroethene	106		104		70-130	2		30
1,2-Dichlorobenzene	105		104		70-130	1		30
1,3-Dichlorobenzene	107		106		70-130	1		30
1,4-Dichlorobenzene	107		105		70-130	2		30
Methyl tert butyl ether	97		98		66-130	1		30
p/m-Xylene	108		104		70-130	4		30
o-Xylene	108		102		70-130	6		30
cis-1,2-Dichloroethene	99		101		70-130	2		30
Dibromomethane	100		99		70-130	1		30
Styrene	95		93		70-130	2		30
Dichlorodifluoromethane	105		110		30-146	5		30
Acetone	109		112		54-140	3		30
Carbon disulfide	91		87		59-130	4		30
2-Butanone	104		105		70-130	1		30
Vinyl acetate	114		107		70-130	6		30
4-Methyl-2-pentanone	100		96		70-130	4		30
1,2,3-Trichloropropane	96		97		68-130	1		30
2-Hexanone	92		89		70-130	3		30
Bromochloromethane	97		96		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17,19,21-22,25-27 Batch: WG1562573-3 WG1562573-4								
2,2-Dichloropropane	101		99		70-130	2		30
1,2-Dibromoethane	110		106		70-130	4		30
1,3-Dichloropropane	103		102		69-130	1		30
1,1,1,2-Tetrachloroethane	109		105		70-130	4		30
Bromobenzene	99		100		70-130	1		30
n-Butylbenzene	112		111		70-130	1		30
sec-Butylbenzene	108		106		70-130	2		30
tert-Butylbenzene	107		105		70-130	2		30
o-Chlorotoluene	106		104		70-130	2		30
p-Chlorotoluene	107		105		70-130	2		30
1,2-Dibromo-3-chloropropane	102		97		68-130	5		30
Hexachlorobutadiene	103		107		67-130	4		30
Isopropylbenzene	102		102		70-130	0		30
p-Isopropyltoluene	109		107		70-130	2		30
Naphthalene	99		102		70-130	3		30
Acrylonitrile	111		108		70-130	3		30
n-Propylbenzene	105		102		70-130	3		30
1,2,3-Trichlorobenzene	101		105		70-130	4		30
1,2,4-Trichlorobenzene	106		108		70-130	2		30
1,3,5-Trimethylbenzene	105		104		70-130	1		30
1,2,4-Trimethylbenzene	104		102		70-130	2		30
1,4-Dioxane	106		98		65-136	8		30
p-Diethylbenzene	109		108		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17,19,21-22,25-27 Batch: WG1562573-3 WG1562573-4								
p-Ethyltoluene	106		103		70-130	3		30
1,2,4,5-Tetramethylbenzene	106		106		70-130	0		30
Ethyl ether	90		85		67-130	6		30
trans-1,4-Dichloro-2-butene	100		100		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	98		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-06 Batch: WG1562596-3 WG1562596-4								
Methylene chloride	91		90		70-130	1		30
1,1-Dichloroethane	103		101		70-130	2		30
Chloroform	109		107		70-130	2		30
Carbon tetrachloride	125		120		70-130	4		30
1,2-Dichloropropane	98		98		70-130	0		30
Dibromochloromethane	99		99		70-130	0		30
1,1,2-Trichloroethane	93		96		70-130	3		30
Tetrachloroethene	112		107		70-130	5		30
Chlorobenzene	101		100		70-130	1		30
Trichlorofluoromethane	127		121		70-139	5		30
1,2-Dichloroethane	108		109		70-130	1		30
1,1,1-Trichloroethane	122		118		70-130	3		30
Bromodichloromethane	109		110		70-130	1		30
trans-1,3-Dichloropropene	93		96		70-130	3		30
cis-1,3-Dichloropropene	94		95		70-130	1		30
1,1-Dichloropropene	110		107		70-130	3		30
Bromoform	90		93		70-130	3		30
1,1,2,2-Tetrachloroethane	85		90		70-130	6		30
Benzene	99		97		70-130	2		30
Toluene	99		97		70-130	2		30
Ethylbenzene	104		103		70-130	1		30
Chloromethane	102		99		52-130	3		30
Bromomethane	86		82		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-06 Batch: WG1562596-3 WG1562596-4								
Vinyl chloride	94		94		67-130	0		30
Chloroethane	93		91		50-151	2		30
1,1-Dichloroethene	101		100		65-135	1		30
trans-1,2-Dichloroethene	101		98		70-130	3		30
Trichloroethene	109		106		70-130	3		30
1,2-Dichlorobenzene	101		100		70-130	1		30
1,3-Dichlorobenzene	104		100		70-130	4		30
1,4-Dichlorobenzene	100		97		70-130	3		30
Methyl tert butyl ether	95		100		66-130	5		30
p/m-Xylene	108		106		70-130	2		30
o-Xylene	108		106		70-130	2		30
cis-1,2-Dichloroethene	99		99		70-130	0		30
Dibromomethane	98		100		70-130	2		30
Styrene	110		108		70-130	2		30
Dichlorodifluoromethane	110		106		30-146	4		30
Acetone	106		115		54-140	8		30
Carbon disulfide	92		92		59-130	0		30
2-Butanone	90		101		70-130	12		30
Vinyl acetate	92		96		70-130	4		30
4-Methyl-2-pentanone	73		79		70-130	8		30
1,2,3-Trichloropropane	87		92		68-130	6		30
2-Hexanone	83		90		70-130	8		30
Bromochloromethane	101		101		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-06 Batch: WG1562596-3 WG1562596-4								
2,2-Dichloropropane	117		113		70-130	3		30
1,2-Dibromoethane	90		92		70-130	2		30
1,3-Dichloropropane	93		96		69-130	3		30
1,1,1,2-Tetrachloroethane	114		113		70-130	1		30
Bromobenzene	100		97		70-130	3		30
n-Butylbenzene	111		106		70-130	5		30
sec-Butylbenzene	108		103		70-130	5		30
tert-Butylbenzene	109		104		70-130	5		30
o-Chlorotoluene	102		96		70-130	6		30
p-Chlorotoluene	104		100		70-130	4		30
1,2-Dibromo-3-chloropropane	79		84		68-130	6		30
Hexachlorobutadiene	114		108		67-130	5		30
Isopropylbenzene	106		103		70-130	3		30
p-Isopropyltoluene	112		108		70-130	4		30
Naphthalene	94		99		70-130	5		30
Acrylonitrile	81		89		70-130	9		30
n-Propylbenzene	105		102		70-130	3		30
1,2,3-Trichlorobenzene	104		104		70-130	0		30
1,2,4-Trichlorobenzene	108		105		70-130	3		30
1,3,5-Trimethylbenzene	109		105		70-130	4		30
1,2,4-Trimethylbenzene	109		105		70-130	4		30
1,4-Dioxane	74		85		65-136	14		30
p-Diethylbenzene	112		106		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-06 Batch: WG1562596-3 WG1562596-4								
p-Ethyltoluene	107		103		70-130	4		30
1,2,4,5-Tetramethylbenzene	110		105		70-130	5		30
Ethyl ether	79		81		67-130	3		30
trans-1,4-Dichloro-2-butene	94		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		111		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	106		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-04,06 Batch: WG1562596-8 WG1562596-9								
Methylene chloride	89		85		70-130	5		30
1,1-Dichloroethane	92		88		70-130	4		30
Chloroform	96		93		70-130	3		30
Carbon tetrachloride	87		83		70-130	5		30
1,2-Dichloropropane	92		90		70-130	2		30
Dibromochloromethane	89		88		70-130	1		30
1,1,2-Trichloroethane	94		92		70-130	2		30
Tetrachloroethene	91		87		70-130	4		30
Chlorobenzene	95		91		70-130	4		30
Trichlorofluoromethane	81		76		70-139	6		30
1,2-Dichloroethane	91		90		70-130	1		30
1,1,1-Trichloroethane	90		86		70-130	5		30
Bromodichloromethane	97		95		70-130	2		30
trans-1,3-Dichloropropene	91		88		70-130	3		30
cis-1,3-Dichloropropene	89		88		70-130	1		30
1,1-Dichloropropene	88		83		70-130	6		30
Bromoform	89		86		70-130	3		30
1,1,2,2-Tetrachloroethane	88		89		70-130	1		30
Benzene	92		88		70-130	4		30
Toluene	92		88		70-130	4		30
Ethylbenzene	94		90		70-130	4		30
Chloromethane	81		75		52-130	8		30
Bromomethane	82		75		57-147	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-04,06 Batch: WG1562596-8 WG1562596-9								
Vinyl chloride	78		72		67-130	8		30
Chloroethane	85		79		50-151	7		30
1,1-Dichloroethene	85		80		65-135	6		30
trans-1,2-Dichloroethene	91		87		70-130	4		30
Trichloroethene	91		88		70-130	3		30
1,2-Dichlorobenzene	96		93		70-130	3		30
1,3-Dichlorobenzene	97		93		70-130	4		30
1,4-Dichlorobenzene	95		91		70-130	4		30
Methyl tert butyl ether	93		92		66-130	1		30
p/m-Xylene	98		94		70-130	4		30
o-Xylene	99		96		70-130	3		30
cis-1,2-Dichloroethene	93		90		70-130	3		30
Dibromomethane	91		91		70-130	0		30
Styrene	102		99		70-130	3		30
Dichlorodifluoromethane	70		64		30-146	9		30
Acetone	80		77		54-140	4		30
Carbon disulfide	81		77		59-130	5		30
2-Butanone	72		73		70-130	1		30
Vinyl acetate	87		85		70-130	2		30
4-Methyl-2-pentanone	74		75		70-130	1		30
1,2,3-Trichloropropane	87		88		68-130	1		30
2-Hexanone	**66**	Q	70		70-130	6		30
Bromochloromethane	96		92		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-04,06 Batch: WG1562596-8 WG1562596-9								
2,2-Dichloropropane	93		86		70-130	8		30
1,2-Dibromoethane	90		87		70-130	3		30
1,3-Dichloropropane	95		92		69-130	3		30
1,1,1,2-Tetrachloroethane	101		98		70-130	3		30
Bromobenzene	94		94		70-130	0		30
n-Butylbenzene	96		91		70-130	5		30
sec-Butylbenzene	93		89		70-130	4		30
tert-Butylbenzene	95		90		70-130	5		30
o-Chlorotoluene	95		92		70-130	3		30
p-Chlorotoluene	96		93		70-130	3		30
1,2-Dibromo-3-chloropropane	78		77		68-130	1		30
Hexachlorobutadiene	94		89		67-130	5		30
Isopropylbenzene	96		91		70-130	5		30
p-Isopropyltoluene	97		93		70-130	4		30
Naphthalene	94		93		70-130	1		30
Acrylonitrile	**151**	Q	**150**	Q	70-130	1		30
n-Propylbenzene	94		91		70-130	3		30
1,2,3-Trichlorobenzene	97		94		70-130	3		30
1,2,4-Trichlorobenzene	100		97		70-130	3		30
1,3,5-Trimethylbenzene	97		95		70-130	2		30
1,2,4-Trimethylbenzene	100		95		70-130	5		30
1,4-Dioxane	79		79		65-136	0		30
p-Diethylbenzene	99		95		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-04,06 Batch: WG1562596-8 WG1562596-9								
p-Ethyltoluene	97		94		70-130	3		30
1,2,4,5-Tetramethylbenzene	100		96		70-130	4		30
Ethyl ether	86		83		67-130	4		30
trans-1,4-Dichloro-2-butene	86		87		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		97		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	99		102		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-29 Batch: WG1562644-3 WG1562644-4								
Methylene chloride	97		95		70-130	2		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	94		100		63-132	6		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	88		96		63-130	9		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		110		75-130	10		20
Trichlorofluoromethane	120		110		62-150	9		20
1,2-Dichloroethane	97		100		70-130	3		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	98		100		67-130	2		20
trans-1,3-Dichloropropene	89		94		70-130	5		20
cis-1,3-Dichloropropene	91		97		70-130	6		20
1,1-Dichloropropene	100		110		70-130	10		20
Bromoform	86		93		54-136	8		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	92		89		64-130	3		20
Bromomethane	81		79		39-139	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-29 Batch: WG1562644-3 WG1562644-4								
Vinyl chloride	85		85		55-140	0		20
Chloroethane	120		94		55-138	**24**	Q	20
1,1-Dichloroethene	130		130		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	94		97		63-130	3		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	93		98		70-130	5		20
1,2,3-Trichloropropane	98		98		64-130	0		20
Acrylonitrile	95		100		70-130	5		20
Styrene	115		115		70-130	0		20
Dichlorodifluoromethane	76		74		36-147	3		20
Acetone	76		74		58-148	3		20
Carbon disulfide	120		130		51-130	8		20
2-Butanone	84		87		63-138	4		20
Vinyl acetate	92		96		70-130	4		20
4-Methyl-2-pentanone	85		90		59-130	6		20
2-Hexanone	83		88		57-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-29 Batch: WG1562644-3 WG1562644-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	98		100		70-130	2		20
1,1,1,2-Tetrachloroethane	95		100		64-130	5		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	120		110		70-130	9		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	86		93		41-144	8		20
Hexachlorobutadiene	100		110		63-130	10		20
Isopropylbenzene	120		110		70-130	9		20
p-Isopropyltoluene	120		120		70-130	0		20
Naphthalene	90		94		70-130	4		20
n-Propylbenzene	120		110		69-130	9		20
1,2,3-Trichlorobenzene	88		91		70-130	3		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	134		126		56-162	6		20
p-Diethylbenzene	120		110		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 28-29 Batch: WG1562644-3 WG1562644-4								
p-Ethyltoluene	120		110		70-130	9		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Ethyl ether	120		130		59-134	8		20
trans-1,4-Dichloro-2-butene	84		89		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		96		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	107		103		70-130
Dibromofluoromethane	97		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1563156-3 WG1563156-4								
Methylene chloride	89		85		70-130	5		30
1,1-Dichloroethane	92		88		70-130	4		30
Chloroform	96		93		70-130	3		30
Carbon tetrachloride	87		83		70-130	5		30
1,2-Dichloropropane	92		90		70-130	2		30
Dibromochloromethane	89		88		70-130	1		30
1,1,2-Trichloroethane	94		92		70-130	2		30
Tetrachloroethene	91		87		70-130	4		30
Chlorobenzene	95		91		70-130	4		30
Trichlorofluoromethane	81		76		70-139	6		30
1,2-Dichloroethane	91		90		70-130	1		30
1,1,1-Trichloroethane	90		86		70-130	5		30
Bromodichloromethane	97		95		70-130	2		30
trans-1,3-Dichloropropene	91		88		70-130	3		30
cis-1,3-Dichloropropene	89		88		70-130	1		30
1,1-Dichloropropene	88		83		70-130	6		30
Bromoform	89		86		70-130	3		30
1,1,2,2-Tetrachloroethane	88		89		70-130	1		30
Benzene	92		88		70-130	4		30
Toluene	92		88		70-130	4		30
Ethylbenzene	94		90		70-130	4		30
Chloromethane	81		75		52-130	8		30
Bromomethane	82		75		57-147	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1563156-3 WG1563156-4								
Vinyl chloride	78		72		67-130	8		30
Chloroethane	85		79		50-151	7		30
1,1-Dichloroethene	85		80		65-135	6		30
trans-1,2-Dichloroethene	91		87		70-130	4		30
Trichloroethene	91		88		70-130	3		30
1,2-Dichlorobenzene	96		93		70-130	3		30
1,3-Dichlorobenzene	97		93		70-130	4		30
1,4-Dichlorobenzene	95		91		70-130	4		30
Methyl tert butyl ether	93		92		66-130	1		30
p/m-Xylene	98		94		70-130	4		30
o-Xylene	99		96		70-130	3		30
cis-1,2-Dichloroethene	93		90		70-130	3		30
Dibromomethane	91		91		70-130	0		30
Styrene	102		99		70-130	3		30
Dichlorodifluoromethane	70		64		30-146	9		30
Acetone	80		77		54-140	4		30
Carbon disulfide	81		77		59-130	5		30
2-Butanone	72		73		70-130	1		30
Vinyl acetate	87		85		70-130	2		30
4-Methyl-2-pentanone	74		75		70-130	1		30
1,2,3-Trichloropropane	87		88		68-130	1		30
2-Hexanone	**66**	Q	70		70-130	6		30
Bromochloromethane	96		92		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1563156-3 WG1563156-4								
2,2-Dichloropropane	93		86		70-130	8		30
1,2-Dibromoethane	90		87		70-130	3		30
1,3-Dichloropropane	95		92		69-130	3		30
1,1,1,2-Tetrachloroethane	101		98		70-130	3		30
Bromobenzene	94		94		70-130	0		30
n-Butylbenzene	96		91		70-130	5		30
sec-Butylbenzene	93		89		70-130	4		30
tert-Butylbenzene	95		90		70-130	5		30
o-Chlorotoluene	95		92		70-130	3		30
p-Chlorotoluene	96		93		70-130	3		30
1,2-Dibromo-3-chloropropane	78		77		68-130	1		30
Hexachlorobutadiene	94		89		67-130	5		30
Isopropylbenzene	96		91		70-130	5		30
p-Isopropyltoluene	97		93		70-130	4		30
Naphthalene	94		93		70-130	1		30
Acrylonitrile	**151**	Q	**150**	Q	70-130	1		30
n-Propylbenzene	94		91		70-130	3		30
1,2,3-Trichlorobenzene	97		94		70-130	3		30
1,2,4-Trichlorobenzene	100		97		70-130	3		30
1,3,5-Trimethylbenzene	97		95		70-130	2		30
1,2,4-Trimethylbenzene	100		95		70-130	5		30
1,4-Dioxane	79		79		65-136	0		30
p-Diethylbenzene	99		95		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1563156-3 WG1563156-4								
p-Ethyltoluene	97		94		70-130	3		30
1,2,4,5-Tetramethylbenzene	100		96		70-130	4		30
Ethyl ether	86		83		67-130	4		30
trans-1,4-Dichloro-2-butene	86		87		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		97		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	99		102		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 32-33,35-36 Batch: WG1563204-3 WG1563204-4								
Methylene chloride	**169**	Q	101		70-130	**50**	Q	30
1,1-Dichloroethane	102		103		70-130	1		30
Chloroform	103		103		70-130	0		30
Carbon tetrachloride	107		107		70-130	0		30
1,2-Dichloropropane	105		102		70-130	3		30
Dibromochloromethane	116		110		70-130	5		30
1,1,2-Trichloroethane	110		108		70-130	2		30
Tetrachloroethene	110		108		70-130	2		30
Chlorobenzene	106		105		70-130	1		30
Trichlorofluoromethane	87		85		70-139	2		30
1,2-Dichloroethane	102		99		70-130	3		30
1,1,1-Trichloroethane	108		109		70-130	1		30
Bromodichloromethane	108		106		70-130	2		30
trans-1,3-Dichloropropene	111		107		70-130	4		30
cis-1,3-Dichloropropene	105		101		70-130	4		30
1,1-Dichloropropene	107		105		70-130	2		30
Bromoform	89		85		70-130	5		30
1,1,2,2-Tetrachloroethane	100		98		70-130	2		30
Benzene	106		104		70-130	2		30
Toluene	98		96		70-130	2		30
Ethylbenzene	104		103		70-130	1		30
Chloromethane	110		112		52-130	2		30
Bromomethane	106		102		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 32-33,35-36 Batch: WG1563204-3 WG1563204-4								
Vinyl chloride	108		102		67-130	6		30
Chloroethane	109		103		50-151	6		30
1,1-Dichloroethene	90		86		65-135	5		30
trans-1,2-Dichloroethene	95		99		70-130	4		30
Trichloroethene	106		104		70-130	2		30
1,2-Dichlorobenzene	105		102		70-130	3		30
1,3-Dichlorobenzene	105		104		70-130	1		30
1,4-Dichlorobenzene	104		104		70-130	0		30
Methyl tert butyl ether	96		96		66-130	0		30
p/m-Xylene	111		110		70-130	1		30
o-Xylene	112		110		70-130	2		30
cis-1,2-Dichloroethene	103		105		70-130	2		30
Dibromomethane	104		100		70-130	4		30
Styrene	100		98		70-130	2		30
Dichlorodifluoromethane	108		112		30-146	4		30
Acetone	117		122		54-140	4		30
Carbon disulfide	92		91		59-130	1		30
2-Butanone	112		97		70-130	14		30
Vinyl acetate	114		110		70-130	4		30
4-Methyl-2-pentanone	101		90		70-130	12		30
1,2,3-Trichloropropane	95		89		68-130	7		30
2-Hexanone	91		86		70-130	6		30
Bromochloromethane	96		100		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 32-33,35-36 Batch: WG1563204-3 WG1563204-4								
2,2-Dichloropropane	98		99		70-130	1		30
1,2-Dibromoethane	114		109		70-130	4		30
1,3-Dichloropropane	109		104		69-130	5		30
1,1,1,2-Tetrachloroethane	113		105		70-130	7		30
Bromobenzene	98		97		70-130	1		30
n-Butylbenzene	106		105		70-130	1		30
sec-Butylbenzene	105		103		70-130	2		30
tert-Butylbenzene	103		102		70-130	1		30
o-Chlorotoluene	104		102		70-130	2		30
p-Chlorotoluene	104		103		70-130	1		30
1,2-Dibromo-3-chloropropane	101		91		68-130	10		30
Hexachlorobutadiene	100		99		67-130	1		30
Isopropylbenzene	97		99		70-130	2		30
p-Isopropyltoluene	103		102		70-130	1		30
Naphthalene	100		97		70-130	3		30
Acrylonitrile	111		107		70-130	4		30
n-Propylbenzene	102		100		70-130	2		30
1,2,3-Trichlorobenzene	102		100		70-130	2		30
1,2,4-Trichlorobenzene	102		101		70-130	1		30
1,3,5-Trimethylbenzene	102		101		70-130	1		30
1,2,4-Trimethylbenzene	99		100		70-130	1		30
1,4-Dioxane	104		96		65-136	8		30
p-Diethylbenzene	102		102		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 32-33,35-36 Batch: WG1563204-3 WG1563204-4								
p-Ethyltoluene	101		101		70-130	0		30
1,2,4,5-Tetramethylbenzene	100		99		70-130	1		30
Ethyl ether	93		89		67-130	4		30
trans-1,4-Dichloro-2-butene	94		92		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		94		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	97		95		70-130
Dibromofluoromethane	100		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 30 Batch: WG1563538-3 WG1563538-4								
Methylene chloride	88		84		70-130	5		30
1,1-Dichloroethane	101		94		70-130	7		30
Chloroform	104		100		70-130	4		30
Carbon tetrachloride	117		109		70-130	7		30
1,2-Dichloropropane	96		91		70-130	5		30
Dibromochloromethane	98		92		70-130	6		30
1,1,2-Trichloroethane	96		90		70-130	6		30
Tetrachloroethene	105		99		70-130	6		30
Chlorobenzene	99		92		70-130	7		30
Trichlorofluoromethane	118		108		70-139	9		30
1,2-Dichloroethane	111		103		70-130	7		30
1,1,1-Trichloroethane	114		106		70-130	7		30
Bromodichloromethane	109		103		70-130	6		30
trans-1,3-Dichloropropene	95		91		70-130	4		30
cis-1,3-Dichloropropene	96		89		70-130	8		30
1,1-Dichloropropene	104		97		70-130	7		30
Bromoform	91		87		70-130	4		30
1,1,2,2-Tetrachloroethane	89		85		70-130	5		30
Benzene	97		90		70-130	7		30
Toluene	96		90		70-130	6		30
Ethylbenzene	100		95		70-130	5		30
Chloromethane	104		93		52-130	11		30
Bromomethane	88		79		57-147	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 30 Batch: WG1563538-3 WG1563538-4								
Vinyl chloride	94		85		67-130	10		30
Chloroethane	96		85		50-151	12		30
1,1-Dichloroethene	96		88		65-135	9		30
trans-1,2-Dichloroethene	98		91		70-130	7		30
Trichloroethene	104		97		70-130	7		30
1,2-Dichlorobenzene	99		95		70-130	4		30
1,3-Dichlorobenzene	100		95		70-130	5		30
1,4-Dichlorobenzene	98		93		70-130	5		30
Methyl tert butyl ether	98		93		66-130	5		30
p/m-Xylene	104		98		70-130	6		30
o-Xylene	105		98		70-130	7		30
cis-1,2-Dichloroethene	98		91		70-130	7		30
Dibromomethane	100		93		70-130	7		30
Styrene	107		101		70-130	6		30
Dichlorodifluoromethane	115		102		30-146	12		30
Acetone	72		65		54-140	10		30
Carbon disulfide	87		81		59-130	7		30
2-Butanone	79		**69**	Q	70-130	14		30
Vinyl acetate	103		96		70-130	7		30
4-Methyl-2-pentanone	77		73		70-130	5		30
1,2,3-Trichloropropane	90		89		68-130	1		30
2-Hexanone	72		**69**	Q	70-130	4		30
Bromochloromethane	102		93		70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 30 Batch: WG1563538-3 WG1563538-4								
2,2-Dichloropropane	112		103		70-130	8		30
1,2-Dibromoethane	92		88		70-130	4		30
1,3-Dichloropropane	96		91		69-130	5		30
1,1,1,2-Tetrachloroethane	111		105		70-130	6		30
Bromobenzene	97		93		70-130	4		30
n-Butylbenzene	100		96		70-130	4		30
sec-Butylbenzene	98		94		70-130	4		30
tert-Butylbenzene	101		96		70-130	5		30
o-Chlorotoluene	97		93		70-130	4		30
p-Chlorotoluene	99		94		70-130	5		30
1,2-Dibromo-3-chloropropane	80		79		68-130	1		30
Hexachlorobutadiene	100		95		67-130	5		30
Isopropylbenzene	100		95		70-130	5		30
p-Isopropyltoluene	104		98		70-130	6		30
Naphthalene	98		93		70-130	5		30
Acrylonitrile	95		91		70-130	4		30
n-Propylbenzene	98		94		70-130	4		30
1,2,3-Trichlorobenzene	102		96		70-130	6		30
1,2,4-Trichlorobenzene	103		97		70-130	6		30
1,3,5-Trimethylbenzene	103		98		70-130	5		30
1,2,4-Trimethylbenzene	104		99		70-130	5		30
1,4-Dioxane	79		76		65-136	4		30
p-Diethylbenzene	103		98		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 30 Batch: WG1563538-3 WG1563538-4								
p-Ethyltoluene	101		97		70-130	4		30
1,2,4,5-Tetramethylbenzene	104		98		70-130	6		30
Ethyl ether	80		74		67-130	8		30
trans-1,4-Dichloro-2-butene	104		102		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		108		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	105		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,05 Batch: WG1563539-3 WG1563539-4								
Methylene chloride	88		84		70-130	5		30
1,1-Dichloroethane	101		94		70-130	7		30
Chloroform	104		100		70-130	4		30
Carbon tetrachloride	117		109		70-130	7		30
1,2-Dichloropropane	96		91		70-130	5		30
Dibromochloromethane	98		92		70-130	6		30
1,1,2-Trichloroethane	96		90		70-130	6		30
Tetrachloroethene	105		99		70-130	6		30
Chlorobenzene	99		92		70-130	7		30
Trichlorofluoromethane	118		108		70-139	9		30
1,2-Dichloroethane	111		103		70-130	7		30
1,1,1-Trichloroethane	114		106		70-130	7		30
Bromodichloromethane	109		103		70-130	6		30
trans-1,3-Dichloropropene	95		91		70-130	4		30
cis-1,3-Dichloropropene	96		89		70-130	8		30
1,1-Dichloropropene	104		97		70-130	7		30
Bromoform	91		87		70-130	4		30
1,1,2,2-Tetrachloroethane	89		85		70-130	5		30
Benzene	97		90		70-130	7		30
Toluene	96		90		70-130	6		30
Ethylbenzene	100		95		70-130	5		30
Chloromethane	104		93		52-130	11		30
Bromomethane	88		79		57-147	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,05 Batch: WG1563539-3 WG1563539-4								
Vinyl chloride	94		85		67-130	10		30
Chloroethane	96		85		50-151	12		30
1,1-Dichloroethene	96		88		65-135	9		30
trans-1,2-Dichloroethene	98		91		70-130	7		30
Trichloroethene	104		97		70-130	7		30
1,2-Dichlorobenzene	99		95		70-130	4		30
1,3-Dichlorobenzene	100		95		70-130	5		30
1,4-Dichlorobenzene	98		93		70-130	5		30
Methyl tert butyl ether	98		93		66-130	5		30
p/m-Xylene	104		98		70-130	6		30
o-Xylene	105		98		70-130	7		30
cis-1,2-Dichloroethene	98		91		70-130	7		30
Dibromomethane	100		93		70-130	7		30
Styrene	107		101		70-130	6		30
Dichlorodifluoromethane	115		102		30-146	12		30
Acetone	72		65		54-140	10		30
Carbon disulfide	87		81		59-130	7		30
2-Butanone	79		**69**	Q	70-130	14		30
Vinyl acetate	103		96		70-130	7		30
4-Methyl-2-pentanone	77		73		70-130	5		30
1,2,3-Trichloropropane	90		89		68-130	1		30
2-Hexanone	72		**69**	Q	70-130	4		30
Bromochloromethane	102		93		70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,05 Batch: WG1563539-3 WG1563539-4								
2,2-Dichloropropane	112		103		70-130	8		30
1,2-Dibromoethane	92		88		70-130	4		30
1,3-Dichloropropane	96		91		69-130	5		30
1,1,1,2-Tetrachloroethane	111		105		70-130	6		30
Bromobenzene	97		93		70-130	4		30
n-Butylbenzene	100		96		70-130	4		30
sec-Butylbenzene	98		94		70-130	4		30
tert-Butylbenzene	101		96		70-130	5		30
o-Chlorotoluene	97		93		70-130	4		30
p-Chlorotoluene	99		94		70-130	5		30
1,2-Dibromo-3-chloropropane	80		79		68-130	1		30
Hexachlorobutadiene	100		95		67-130	5		30
Isopropylbenzene	100		95		70-130	5		30
p-Isopropyltoluene	104		98		70-130	6		30
Naphthalene	98		93		70-130	5		30
Acrylonitrile	95		91		70-130	4		30
n-Propylbenzene	98		94		70-130	4		30
1,2,3-Trichlorobenzene	102		96		70-130	6		30
1,2,4-Trichlorobenzene	103		97		70-130	6		30
1,3,5-Trimethylbenzene	103		98		70-130	5		30
1,2,4-Trimethylbenzene	104		99		70-130	5		30
1,4-Dioxane	79		76		65-136	4		30
p-Diethylbenzene	103		98		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,05 Batch: WG1563539-3 WG1563539-4								
p-Ethyltoluene	101		97		70-130	4		30
1,2,4,5-Tetramethylbenzene	104		98		70-130	6		30
Ethyl ether	80		74		67-130	8		30
trans-1,4-Dichloro-2-butene	104		102		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		108		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	105		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 37 Batch: WG1563561-3 WG1563561-4								
Methylene chloride	**168**	Q	104		70-130	**47**	Q	30
1,1-Dichloroethane	100		104		70-130	4		30
Chloroform	100		103		70-130	3		30
Carbon tetrachloride	101		103		70-130	2		30
1,2-Dichloropropane	102		102		70-130	0		30
Dibromochloromethane	108		113		70-130	5		30
1,1,2-Trichloroethane	106		107		70-130	1		30
Tetrachloroethene	100		107		70-130	7		30
Chlorobenzene	102		107		70-130	5		30
Trichlorofluoromethane	86		83		70-139	4		30
1,2-Dichloroethane	101		99		70-130	2		30
1,1,1-Trichloroethane	105		107		70-130	2		30
Bromodichloromethane	107		107		70-130	0		30
trans-1,3-Dichloropropene	106		107		70-130	1		30
cis-1,3-Dichloropropene	102		101		70-130	1		30
1,1-Dichloropropene	101		103		70-130	2		30
Bromoform	90		90		70-130	0		30
1,1,2,2-Tetrachloroethane	106		103		70-130	3		30
Benzene	104		104		70-130	0		30
Toluene	94		98		70-130	4		30
Ethylbenzene	97		102		70-130	5		30
Chloromethane	109		112		52-130	3		30
Bromomethane	96		98		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 37 Batch: WG1563561-3 WG1563561-4								
Vinyl chloride	107		102		67-130	5		30
Chloroethane	110		107		50-151	3		30
1,1-Dichloroethene	89		85		65-135	5		30
trans-1,2-Dichloroethene	94		98		70-130	4		30
Trichloroethene	102		101		70-130	1		30
1,2-Dichlorobenzene	102		104		70-130	2		30
1,3-Dichlorobenzene	103		105		70-130	2		30
1,4-Dichlorobenzene	100		104		70-130	4		30
Methyl tert butyl ether	97		99		66-130	2		30
p/m-Xylene	100		107		70-130	7		30
o-Xylene	101		107		70-130	6		30
cis-1,2-Dichloroethene	98		105		70-130	7		30
Dibromomethane	100		99		70-130	1		30
Styrene	90		95		70-130	5		30
Dichlorodifluoromethane	101		104		30-146	3		30
Acetone	121		126		54-140	4		30
Carbon disulfide	93		90		59-130	3		30
2-Butanone	110		105		70-130	5		30
Vinyl acetate	113		118		70-130	4		30
4-Methyl-2-pentanone	100		102		70-130	2		30
1,2,3-Trichloropropane	98		97		68-130	1		30
2-Hexanone	95		92		70-130	3		30
Bromochloromethane	97		100		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 37 Batch: WG1563561-3 WG1563561-4								
2,2-Dichloropropane	96		99		70-130	3		30
1,2-Dibromoethane	107		109		70-130	2		30
1,3-Dichloropropane	104		105		69-130	1		30
1,1,1,2-Tetrachloroethane	106		111		70-130	5		30
Bromobenzene	96		98		70-130	2		30
n-Butylbenzene	100		103		70-130	3		30
sec-Butylbenzene	97		101		70-130	4		30
tert-Butylbenzene	97		101		70-130	4		30
o-Chlorotoluene	98		101		70-130	3		30
p-Chlorotoluene	102		102		70-130	0		30
1,2-Dibromo-3-chloropropane	101		100		68-130	1		30
Hexachlorobutadiene	94		93		67-130	1		30
Isopropylbenzene	94		99		70-130	5		30
p-Isopropyltoluene	98		102		70-130	4		30
Naphthalene	101		99		70-130	2		30
Acrylonitrile	113		109		70-130	4		30
n-Propylbenzene	95		99		70-130	4		30
1,2,3-Trichlorobenzene	100		98		70-130	2		30
1,2,4-Trichlorobenzene	102		99		70-130	3		30
1,3,5-Trimethylbenzene	98		101		70-130	3		30
1,2,4-Trimethylbenzene	98		101		70-130	3		30
1,4-Dioxane	104		101		65-136	3		30
p-Diethylbenzene	99		101		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 37 Batch: WG1563561-3 WG1563561-4								
p-Ethyltoluene	96		98		70-130	2		30
1,2,4,5-Tetramethylbenzene	98		99		70-130	1		30
Ethyl ether	96		93		67-130	3		30
trans-1,4-Dichloro-2-butene	100		95		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	102		104		70-130
4-Bromofluorobenzene	99		96		70-130
Dibromofluoromethane	98		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 41-43 Batch: WG1563699-3 WG1563699-4								
Methylene chloride	76		73		70-130	4		30
1,1-Dichloroethane	92		90		70-130	2		30
Chloroform	88		86		70-130	2		30
Carbon tetrachloride	84		84		70-130	0		30
1,2-Dichloropropane	92		90		70-130	2		30
Dibromochloromethane	91		91		70-130	0		30
1,1,2-Trichloroethane	94		90		70-130	4		30
Tetrachloroethene	92		92		70-130	0		30
Chlorobenzene	94		94		70-130	0		30
Trichlorofluoromethane	87		85		70-139	2		30
1,2-Dichloroethane	87		82		70-130	6		30
1,1,1-Trichloroethane	88		87		70-130	1		30
Bromodichloromethane	88		86		70-130	2		30
trans-1,3-Dichloropropene	96		94		70-130	2		30
cis-1,3-Dichloropropene	93		91		70-130	2		30
1,1-Dichloropropene	92		92		70-130	0		30
Bromoform	90		84		70-130	7		30
1,1,2,2-Tetrachloroethane	102		94		70-130	8		30
Benzene	93		91		70-130	2		30
Toluene	94		96		70-130	2		30
Ethylbenzene	98		100		70-130	2		30
Chloromethane	90		88		52-130	2		30
Bromomethane	86		86		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 41-43 Batch: WG1563699-3 WG1563699-4								
Vinyl chloride	94		92		67-130	2		30
Chloroethane	92		92		50-151	0		30
1,1-Dichloroethene	89		87		65-135	2		30
trans-1,2-Dichloroethene	89		86		70-130	3		30
Trichloroethene	87		86		70-130	1		30
1,2-Dichlorobenzene	95		93		70-130	2		30
1,3-Dichlorobenzene	97		97		70-130	0		30
1,4-Dichlorobenzene	97		96		70-130	1		30
Methyl tert butyl ether	87		80		66-130	8		30
p/m-Xylene	96		98		70-130	2		30
o-Xylene	97		98		70-130	1		30
cis-1,2-Dichloroethene	85		83		70-130	2		30
Dibromomethane	86		79		70-130	8		30
Styrene	101		101		70-130	0		30
Dichlorodifluoromethane	80		78		30-146	3		30
Acetone	79		68		54-140	15		30
Carbon disulfide	78		77		59-130	1		30
2-Butanone	80		**69**	Q	70-130	15		30
Vinyl acetate	113		106		70-130	6		30
4-Methyl-2-pentanone	95		87		70-130	9		30
1,2,3-Trichloropropane	99		90		68-130	10		30
2-Hexanone	101		92		70-130	9		30
Bromochloromethane	83		78		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 41-43 Batch: WG1563699-3 WG1563699-4								
2,2-Dichloropropane	89		89		70-130	0		30
1,2-Dibromoethane	92		87		70-130	6		30
1,3-Dichloropropane	95		92		69-130	3		30
1,1,1,2-Tetrachloroethane	92		92		70-130	0		30
Bromobenzene	95		92		70-130	3		30
n-Butylbenzene	108		109		70-130	1		30
sec-Butylbenzene	104		106		70-130	2		30
tert-Butylbenzene	101		101		70-130	0		30
o-Chlorotoluene	103		102		70-130	1		30
p-Chlorotoluene	103		102		70-130	1		30
1,2-Dibromo-3-chloropropane	85		78		68-130	9		30
Hexachlorobutadiene	97		98		67-130	1		30
Isopropylbenzene	104		103		70-130	1		30
p-Isopropyltoluene	103		104		70-130	1		30
Naphthalene	100		91		70-130	9		30
Acrylonitrile	90		81		70-130	11		30
n-Propylbenzene	108		107		70-130	1		30
1,2,3-Trichlorobenzene	98		93		70-130	5		30
1,2,4-Trichlorobenzene	102		99		70-130	3		30
1,3,5-Trimethylbenzene	103		103		70-130	0		30
1,2,4-Trimethylbenzene	101		101		70-130	0		30
1,4-Dioxane	79		74		65-136	7		30
p-Diethylbenzene	104		104		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 41-43 Batch: WG1563699-3 WG1563699-4								
p-Ethyltoluene	104		103		70-130	1		30
1,2,4,5-Tetramethylbenzene	109		109		70-130	0		30
Ethyl ether	88		83		67-130	6		30
trans-1,4-Dichloro-2-butene	104		96		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		92		70-130
Toluene-d8	101		103		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	91		89		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 30 Batch: WG1564015-3 WG1564015-4								
Methylene chloride	93		91		70-130	2		30
1,1-Dichloroethane	109		104		70-130	5		30
Chloroform	112		106		70-130	6		30
Carbon tetrachloride	**132**	Q	121		70-130	9		30
1,2-Dichloropropane	100		99		70-130	1		30
Dibromochloromethane	101		102		70-130	1		30
1,1,2-Trichloroethane	96		97		70-130	1		30
Tetrachloroethene	113		109		70-130	4		30
Chlorobenzene	104		101		70-130	3		30
Trichlorofluoromethane	133		123		70-139	8		30
1,2-Dichloroethane	117		114		70-130	3		30
1,1,1-Trichloroethane	128		121		70-130	6		30
Bromodichloromethane	115		113		70-130	2		30
trans-1,3-Dichloropropene	97		97		70-130	0		30
cis-1,3-Dichloropropene	99		99		70-130	0		30
1,1-Dichloropropene	113		109		70-130	4		30
Bromoform	92		93		70-130	1		30
1,1,2,2-Tetrachloroethane	88		88		70-130	0		30
Benzene	102		99		70-130	3		30
Toluene	101		98		70-130	3		30
Ethylbenzene	107		103		70-130	4		30
Chloromethane	110		105		52-130	5		30
Bromomethane	90		85		57-147	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 30 Batch: WG1564015-3 WG1564015-4								
Vinyl chloride	97		94		67-130	3		30
Chloroethane	99		92		50-151	7		30
1,1-Dichloroethene	103		99		65-135	4		30
trans-1,2-Dichloroethene	105		100		70-130	5		30
Trichloroethene	112		107		70-130	5		30
1,2-Dichlorobenzene	103		100		70-130	3		30
1,3-Dichlorobenzene	106		101		70-130	5		30
1,4-Dichlorobenzene	103		98		70-130	5		30
Methyl tert butyl ether	99		100		66-130	1		30
p/m-Xylene	111		108		70-130	3		30
o-Xylene	110		107		70-130	3		30
cis-1,2-Dichloroethene	104		100		70-130	4		30
Dibromomethane	104		103		70-130	1		30
Styrene	111		110		70-130	1		30
Dichlorodifluoromethane	125		117		30-146	7		30
Acetone	71		81		54-140	13		30
Carbon disulfide	95		90		59-130	5		30
2-Butanone	77		79		70-130	3		30
Vinyl acetate	108		110		70-130	2		30
4-Methyl-2-pentanone	76		81		70-130	6		30
1,2,3-Trichloropropane	88		93		68-130	6		30
2-Hexanone	70		77		70-130	10		30
Bromochloromethane	107		104		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 30 Batch: WG1564015-3 WG1564015-4								
2,2-Dichloropropane	125		117		70-130	7		30
1,2-Dibromoethane	92		94		70-130	2		30
1,3-Dichloropropane	95		97		69-130	2		30
1,1,1,2-Tetrachloroethane	116		112		70-130	4		30
Bromobenzene	100		97		70-130	3		30
n-Butylbenzene	112		105		70-130	6		30
sec-Butylbenzene	108		101		70-130	7		30
tert-Butylbenzene	108		104		70-130	4		30
o-Chlorotoluene	103		98		70-130	5		30
p-Chlorotoluene	105		100		70-130	5		30
1,2-Dibromo-3-chloropropane	79		84		68-130	6		30
Hexachlorobutadiene	116		107		67-130	8		30
Isopropylbenzene	106		101		70-130	5		30
p-Isopropyltoluene	112		107		70-130	5		30
Naphthalene	96		100		70-130	4		30
Acrylonitrile	94		99		70-130	5		30
n-Propylbenzene	105		101		70-130	4		30
1,2,3-Trichlorobenzene	106		104		70-130	2		30
1,2,4-Trichlorobenzene	110		105		70-130	5		30
1,3,5-Trimethylbenzene	111		105		70-130	6		30
1,2,4-Trimethylbenzene	111		106		70-130	5		30
1,4-Dioxane	82		85		65-136	4		30
p-Diethylbenzene	113		107		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 30 Batch: WG1564015-3 WG1564015-4								
p-Ethyltoluene	108		103		70-130	5		30
1,2,4,5-Tetramethylbenzene	110		106		70-130	4		30
Ethyl ether	76		78		67-130	3		30
trans-1,4-Dichloro-2-butene	105		106		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		114		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	107		107		70-130

SEMIVOLATILES

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01
Client ID: B-1 (4.5-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 14:43
Analyst: JG
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	480	62.	1
1,2,4-Trichlorobenzene	ND		ug/kg	600	68.	1
Hexachlorobenzene	ND		ug/kg	360	67.	1
Bis(2-chloroethyl)ether	ND		ug/kg	540	81.	1
2-Chloronaphthalene	ND		ug/kg	600	59.	1
1,2-Dichlorobenzene	ND		ug/kg	600	110	1
1,3-Dichlorobenzene	ND		ug/kg	600	100	1
1,4-Dichlorobenzene	ND		ug/kg	600	100	1
3,3'-Dichlorobenzidine	ND		ug/kg	600	160	1
2,4-Dinitrotoluene	ND		ug/kg	600	120	1
2,6-Dinitrotoluene	ND		ug/kg	600	100	1
Fluoranthene	ND		ug/kg	360	69.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	600	64.	1
4-Bromophenyl phenyl ether	ND		ug/kg	600	91.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	720	100	1
Bis(2-chloroethoxy)methane	ND		ug/kg	650	60.	1
Hexachlorobutadiene	ND		ug/kg	600	88.	1
Hexachlorocyclopentadiene	ND		ug/kg	1700	540	1
Hexachloroethane	ND		ug/kg	480	97.	1
Isophorone	ND		ug/kg	540	78.	1
Naphthalene	ND		ug/kg	600	73.	1
Nitrobenzene	ND		ug/kg	540	89.	1
NDPA/DPA	ND		ug/kg	480	68.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	600	92.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	600	210	1
Butyl benzyl phthalate	ND		ug/kg	600	150	1
Di-n-butylphthalate	ND		ug/kg	600	110	1
Di-n-octylphthalate	ND		ug/kg	600	200	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01 Date Collected: 10/12/21 09:50

Client ID: B-1 (4.5-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	600	55.	1
Dimethyl phthalate	ND		ug/kg	600	120	1
Benzo(a)anthracene	ND		ug/kg	360	67.	1
Benzo(a)pyrene	ND		ug/kg	480	150	1
Benzo(b)fluoranthene	ND		ug/kg	360	100	1
Benzo(k)fluoranthene	ND		ug/kg	360	96.	1
Chrysene	ND		ug/kg	360	62.	1
Acenaphthylene	ND		ug/kg	480	92.	1
Anthracene	ND		ug/kg	360	120	1
Benzo(ghi)perylene	ND		ug/kg	480	70.	1
Fluorene	ND		ug/kg	600	58.	1
Phenanthrene	100	J	ug/kg	360	73.	1
Dibenzo(a,h)anthracene	ND		ug/kg	360	69.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	480	83.	1
Pyrene	ND		ug/kg	360	60.	1
Biphenyl	ND		ug/kg	1400	140	1
4-Chloroaniline	ND		ug/kg	600	110	1
2-Nitroaniline	ND		ug/kg	600	120	1
3-Nitroaniline	ND		ug/kg	600	110	1
4-Nitroaniline	ND		ug/kg	600	250	1
Dibenzofuran	ND		ug/kg	600	57.	1
2-Methylnaphthalene	ND		ug/kg	720	72.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	600	62.	1
Acetophenone	ND		ug/kg	600	74.	1
2,4,6-Trichlorophenol	ND		ug/kg	360	110	1
p-Chloro-m-cresol	ND		ug/kg	600	89.	1
2-Chlorophenol	ND		ug/kg	600	71.	1
2,4-Dichlorophenol	ND		ug/kg	540	96.	1
2,4-Dimethylphenol	ND		ug/kg	600	200	1
2-Nitrophenol	ND		ug/kg	1300	220	1
4-Nitrophenol	ND		ug/kg	840	240	1
2,4-Dinitrophenol	ND		ug/kg	2900	280	1
4,6-Dinitro-o-cresol	ND		ug/kg	1600	290	1
Pentachlorophenol	ND		ug/kg	480	130	1
Phenol	ND		ug/kg	600	90.	1
2-Methylphenol	ND		ug/kg	600	93.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	860	94.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01 Date Collected: 10/12/21 09:50

Client ID: B-1 (4.5-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	600	110	1
Benzoic Acid	ND		ug/kg	1900	610	1
Benzyl Alcohol	ND		ug/kg	600	180	1
Carbazole	ND		ug/kg	600	58.	1
1,4-Dioxane	ND		ug/kg	90	28.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	101		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	108		30-120
2,4,6-Tribromophenol	127		10-136
4-Terphenyl-d14	117		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02
Client ID: B-1 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 15:05
Analyst: JG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	220		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	280		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	99	J	ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02 Date Collected: 10/12/21 09:30

Client ID: B-1 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	130		ug/kg	110	21.	1
Benzo(a)pyrene	140	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	190		ug/kg	110	32.	1
Benzo(k)fluoranthene	55	J	ug/kg	110	30.	1
Chrysene	200		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	100	J	ug/kg	150	22.	1
Fluorene	38	J	ug/kg	190	18.	1
Phenanthrene	210		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	26	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	98	J	ug/kg	150	27.	1
Pyrene	250		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	25	J	ug/kg	190	18.	1
2-Methylnaphthalene	240		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	180	J	ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	55	J	ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	140	J	ug/kg	270	30.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02 Date Collected: 10/12/21 09:30

Client ID: B-1 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	59	J	ug/kg	190	58.	1
Carbazole	21	J	ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	94		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03
Client ID: B-2 (2.5-3.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:10
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 15:27
Analyst: JG
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	140	J	ug/kg	450	58.	1
1,2,4-Trichlorobenzene	ND		ug/kg	560	64.	1
Hexachlorobenzene	ND		ug/kg	340	63.	1
Bis(2-chloroethyl)ether	ND		ug/kg	510	76.	1
2-Chloronaphthalene	ND		ug/kg	560	56.	1
1,2-Dichlorobenzene	ND		ug/kg	560	100	1
1,3-Dichlorobenzene	ND		ug/kg	560	97.	1
1,4-Dichlorobenzene	ND		ug/kg	560	98.	1
3,3'-Dichlorobenzidine	ND		ug/kg	560	150	1
2,4-Dinitrotoluene	ND		ug/kg	560	110	1
2,6-Dinitrotoluene	ND		ug/kg	560	97.	1
Fluoranthene	230	J	ug/kg	340	65.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	560	60.	1
4-Bromophenyl phenyl ether	ND		ug/kg	560	86.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	680	96.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	610	56.	1
Hexachlorobutadiene	ND		ug/kg	560	83.	1
Hexachlorocyclopentadiene	ND		ug/kg	1600	510	1
Hexachloroethane	ND		ug/kg	450	91.	1
Isophorone	ND		ug/kg	510	73.	1
Naphthalene	28000	E	ug/kg	560	69.	1
Nitrobenzene	ND		ug/kg	510	84.	1
NDPA/DPA	ND		ug/kg	450	64.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	560	87.	1
Bis(2-ethylhexyl)phthalate	2700		ug/kg	560	200	1
Butyl benzyl phthalate	ND		ug/kg	560	140	1
Di-n-butylphthalate	ND		ug/kg	560	110	1
Di-n-octylphthalate	ND		ug/kg	560	190	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03 Date Collected: 10/12/21 10:10

Client ID: B-2 (2.5-3.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	560	52.	1
Dimethyl phthalate	ND		ug/kg	560	120	1
Benzo(a)anthracene	100	J	ug/kg	340	64.	1
Benzo(a)pyrene	ND		ug/kg	450	140	1
Benzo(b)fluoranthene	100	J	ug/kg	340	95.	1
Benzo(k)fluoranthene	ND		ug/kg	340	90.	1
Chrysene	280	J	ug/kg	340	59.	1
Acenaphthylene	ND		ug/kg	450	87.	1
Anthracene	ND		ug/kg	340	110	1
Benzo(ghi)perylene	ND		ug/kg	450	66.	1
Fluorene	370	J	ug/kg	560	55.	1
Phenanthrene	590		ug/kg	340	69.	1
Dibenzo(a,h)anthracene	ND		ug/kg	340	65.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	450	79.	1
Pyrene	260	J	ug/kg	340	56.	1
Biphenyl	510	J	ug/kg	1300	130	1
4-Chloroaniline	ND		ug/kg	560	100	1
2-Nitroaniline	ND		ug/kg	560	110	1
3-Nitroaniline	ND		ug/kg	560	110	1
4-Nitroaniline	ND		ug/kg	560	230	1
Dibenzofuran	ND		ug/kg	560	53.	1
2-Methylnaphthalene	28000	E	ug/kg	680	68.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	560	59.	1
Acetophenone	ND		ug/kg	560	70.	1
2,4,6-Trichlorophenol	ND		ug/kg	340	110	1
p-Chloro-m-cresol	ND		ug/kg	560	84.	1
2-Chlorophenol	ND		ug/kg	560	67.	1
2,4-Dichlorophenol	ND		ug/kg	510	91.	1
2,4-Dimethylphenol	1300		ug/kg	560	190	1
2-Nitrophenol	ND		ug/kg	1200	210	1
4-Nitrophenol	ND		ug/kg	790	230	1
2,4-Dinitrophenol	ND		ug/kg	2700	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	1500	270	1
Pentachlorophenol	ND		ug/kg	450	120	1
Phenol	1300		ug/kg	560	85.	1
2-Methylphenol	2300		ug/kg	560	88.	1
3-Methylphenol/4-Methylphenol	4000		ug/kg	810	88.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03 Date Collected: 10/12/21 10:10

Client ID: B-2 (2.5-3.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	560	110	1
Benzoic Acid	ND		ug/kg	1800	570	1
Benzyl Alcohol	ND		ug/kg	560	170	1
Carbazole	ND		ug/kg	560	55.	1
1,4-Dioxane	ND		ug/kg	85	26.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	96		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	100		18-120

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03 D
Client ID: B-2 (2.5-3.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:10
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/28/21 01:02
Analyst: IM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Naphthalene	35000		ug/kg	2800	340	5
2-Methylnaphthalene	31000		ug/kg	3400	340	5

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04
Client ID: B-2 (5-6)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 15:49
Analyst: JG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	28	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	55.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	27	J	ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	6600		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	460		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04 Date Collected: 10/12/21 10:25

Client ID: B-2 (5-6) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	22	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	76	J	ug/kg	200	20.	1
Phenanthrene	92	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	36	J	ug/kg	120	20.	1
Biphenyl	110	J	ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	6300		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	31.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	170	J	ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	90	J	ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	160	J	ug/kg	300	32.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04 Date Collected: 10/12/21 10:25

Client ID: B-2 (5-6) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	92		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05
Client ID: B-3 (3-4)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 17:55
Analyst: JG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	45	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	79	J	ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	780		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	660		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	120	J	ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05 Date Collected: 10/12/21 11:00

Client ID: B-3 (3-4) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	550		ug/kg	120	22.	1
Benzo(a)pyrene	460		ug/kg	160	48.	1
Benzo(b)fluoranthene	700		ug/kg	120	33.	1
Benzo(k)fluoranthene	170		ug/kg	120	31.	1
Chrysene	740		ug/kg	120	20.	1
Acenaphthylene	69	J	ug/kg	160	30.	1
Anthracene	140		ug/kg	120	38.	1
Benzo(ghi)perylene	370		ug/kg	160	23.	1
Fluorene	110	J	ug/kg	200	19.	1
Phenanthrene	740		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	110	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	360		ug/kg	160	27.	1
Pyrene	890		ug/kg	120	20.	1
Biphenyl	65	J	ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	91	J	ug/kg	200	18.	1
2-Methylnaphthalene	430		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	120	J	ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	140	J	ug/kg	280	31.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05 Date Collected: 10/12/21 11:00

Client ID: B-3 (3-4) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	86	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	89		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06
Client ID: B-3 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 18:17
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	500	65.	1
1,2,4-Trichlorobenzene	ND		ug/kg	630	72.	1
Hexachlorobenzene	ND		ug/kg	380	70.	1
Bis(2-chloroethyl)ether	ND		ug/kg	560	85.	1
2-Chloronaphthalene	ND		ug/kg	630	62.	1
1,2-Dichlorobenzene	ND		ug/kg	630	110	1
1,3-Dichlorobenzene	ND		ug/kg	630	110	1
1,4-Dichlorobenzene	ND		ug/kg	630	110	1
3,3'-Dichlorobenzidine	ND		ug/kg	630	170	1
2,4-Dinitrotoluene	ND		ug/kg	630	120	1
2,6-Dinitrotoluene	ND		ug/kg	630	110	1
Fluoranthene	ND		ug/kg	380	72.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	630	67.	1
4-Bromophenyl phenyl ether	ND		ug/kg	630	96.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	750	110	1
Bis(2-chloroethoxy)methane	ND		ug/kg	680	63.	1
Hexachlorobutadiene	ND		ug/kg	630	92.	1
Hexachlorocyclopentadiene	ND		ug/kg	1800	570	1
Hexachloroethane	ND		ug/kg	500	100	1
Isophorone	ND		ug/kg	560	81.	1
Naphthalene	3600		ug/kg	630	76.	1
Nitrobenzene	ND		ug/kg	560	93.	1
NDPA/DPA	ND		ug/kg	500	71.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	630	97.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	630	220	1
Butyl benzyl phthalate	ND		ug/kg	630	160	1
Di-n-butylphthalate	ND		ug/kg	630	120	1
Di-n-octylphthalate	ND		ug/kg	630	210	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06 Date Collected: 10/12/21 10:50

Client ID: B-3 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	630	58.	1
Dimethyl phthalate	ND		ug/kg	630	130	1
Benzo(a)anthracene	ND		ug/kg	380	70.	1
Benzo(a)pyrene	ND		ug/kg	500	150	1
Benzo(b)fluoranthene	ND		ug/kg	380	100	1
Benzo(k)fluoranthene	ND		ug/kg	380	100	1
Chrysene	ND		ug/kg	380	65.	1
Acenaphthylene	ND		ug/kg	500	97.	1
Anthracene	ND		ug/kg	380	120	1
Benzo(ghi)perylene	ND		ug/kg	500	74.	1
Fluorene	ND		ug/kg	630	61.	1
Phenanthrene	ND		ug/kg	380	76.	1
Dibenzo(a,h)anthracene	ND		ug/kg	380	72.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	500	87.	1
Pyrene	ND		ug/kg	380	62.	1
Biphenyl	ND		ug/kg	1400	140	1
4-Chloroaniline	ND		ug/kg	630	110	1
2-Nitroaniline	ND		ug/kg	630	120	1
3-Nitroaniline	ND		ug/kg	630	120	1
4-Nitroaniline	ND		ug/kg	630	260	1
Dibenzofuran	ND		ug/kg	630	59.	1
2-Methylnaphthalene	2100		ug/kg	750	76.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	630	65.	1
Acetophenone	ND		ug/kg	630	78.	1
2,4,6-Trichlorophenol	ND		ug/kg	380	120	1
p-Chloro-m-cresol	ND		ug/kg	630	93.	1
2-Chlorophenol	ND		ug/kg	630	74.	1
2,4-Dichlorophenol	ND		ug/kg	560	100	1
2,4-Dimethylphenol	ND		ug/kg	630	210	1
2-Nitrophenol	ND		ug/kg	1400	240	1
4-Nitrophenol	ND		ug/kg	880	260	1
2,4-Dinitrophenol	ND		ug/kg	3000	290	1
4,6-Dinitro-o-cresol	ND		ug/kg	1600	300	1
Pentachlorophenol	ND		ug/kg	500	140	1
Phenol	ND		ug/kg	630	94.	1
2-Methylphenol	ND		ug/kg	630	97.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	900	98.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06 Date Collected: 10/12/21 10:50

Client ID: B-3 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	630	120	1
Benzoic Acid	ND		ug/kg	2000	630	1
Benzyl Alcohol	ND		ug/kg	630	190	1
Carbazole	ND		ug/kg	630	61.	1
1,4-Dioxane	ND		ug/kg	94	29.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	98		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	90		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08
Client ID: B-5 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:34
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 18:39
Analyst: JG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	61	J	ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	240		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08 Date Collected: 10/12/21 11:34

Client ID: B-5 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	50	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	55	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	64	J	ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	34	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	60	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	32	J	ug/kg	140	25.	1
Pyrene	72	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	300		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08 Date Collected: 10/12/21 11:34

Client ID: B-5 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	105		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	103		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09
Client ID: B-5 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:42
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 19:00
Analyst: JG
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	440	57.	1
1,2,4-Trichlorobenzene	ND		ug/kg	550	63.	1
Hexachlorobenzene	ND		ug/kg	330	62.	1
Bis(2-chloroethyl)ether	ND		ug/kg	500	75.	1
2-Chloronaphthalene	ND		ug/kg	550	54.	1
1,2-Dichlorobenzene	ND		ug/kg	550	99.	1
1,3-Dichlorobenzene	ND		ug/kg	550	95.	1
1,4-Dichlorobenzene	ND		ug/kg	550	96.	1
3,3'-Dichlorobenzidine	ND		ug/kg	550	150	1
2,4-Dinitrotoluene	ND		ug/kg	550	110	1
2,6-Dinitrotoluene	ND		ug/kg	550	94.	1
Fluoranthene	ND		ug/kg	330	63.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	550	59.	1
4-Bromophenyl phenyl ether	ND		ug/kg	550	84.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	660	94.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	590	55.	1
Hexachlorobutadiene	ND		ug/kg	550	80.	1
Hexachlorocyclopentadiene	ND		ug/kg	1600	500	1
Hexachloroethane	ND		ug/kg	440	89.	1
Isophorone	ND		ug/kg	500	71.	1
Naphthalene	ND		ug/kg	550	67.	1
Nitrobenzene	ND		ug/kg	500	81.	1
NDPA/DPA	ND		ug/kg	440	63.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	550	85.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	550	190	1
Butyl benzyl phthalate	ND		ug/kg	550	140	1
Di-n-butylphthalate	ND		ug/kg	550	100	1
Di-n-octylphthalate	ND		ug/kg	550	190	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09 Date Collected: 10/12/21 11:42

Client ID: B-5 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	550	51.	1
Dimethyl phthalate	ND		ug/kg	550	120	1
Benzo(a)anthracene	ND		ug/kg	330	62.	1
Benzo(a)pyrene	ND		ug/kg	440	130	1
Benzo(b)fluoranthene	ND		ug/kg	330	93.	1
Benzo(k)fluoranthene	ND		ug/kg	330	88.	1
Chrysene	ND		ug/kg	330	57.	1
Acenaphthylene	ND		ug/kg	440	85.	1
Anthracene	ND		ug/kg	330	110	1
Benzo(ghi)perylene	ND		ug/kg	440	65.	1
Fluorene	ND		ug/kg	550	53.	1
Phenanthrene	ND		ug/kg	330	67.	1
Dibenzo(a,h)anthracene	ND		ug/kg	330	64.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	440	77.	1
Pyrene	ND		ug/kg	330	55.	1
Biphenyl	ND		ug/kg	1200	130	1
4-Chloroaniline	ND		ug/kg	550	100	1
2-Nitroaniline	ND		ug/kg	550	110	1
3-Nitroaniline	ND		ug/kg	550	100	1
4-Nitroaniline	ND		ug/kg	550	230	1
Dibenzofuran	ND		ug/kg	550	52.	1
2-Methylnaphthalene	ND		ug/kg	660	66.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	550	57.	1
Acetophenone	ND		ug/kg	550	68.	1
2,4,6-Trichlorophenol	ND		ug/kg	330	100	1
p-Chloro-m-cresol	ND		ug/kg	550	82.	1
2-Chlorophenol	ND		ug/kg	550	65.	1
2,4-Dichlorophenol	ND		ug/kg	500	88.	1
2,4-Dimethylphenol	ND		ug/kg	550	180	1
2-Nitrophenol	ND		ug/kg	1200	210	1
4-Nitrophenol	ND		ug/kg	770	220	1
2,4-Dinitrophenol	ND		ug/kg	2600	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	1400	260	1
Pentachlorophenol	ND		ug/kg	440	120	1
Phenol	ND		ug/kg	550	83.	1
2-Methylphenol	ND		ug/kg	550	85.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	790	86.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09 Date Collected: 10/12/21 11:42

Client ID: B-5 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	550	100	1
Benzoic Acid	ND		ug/kg	1800	560	1
Benzyl Alcohol	ND		ug/kg	550	170	1
Carbazole	ND		ug/kg	550	53.	1
1,4-Dioxane	ND		ug/kg	82	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	83		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11
Client ID: B-6 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 19:22
Analyst: JG
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	480	62.	1
1,2,4-Trichlorobenzene	ND		ug/kg	600	68.	1
Hexachlorobenzene	ND		ug/kg	360	67.	1
Bis(2-chloroethyl)ether	ND		ug/kg	540	81.	1
2-Chloronaphthalene	ND		ug/kg	600	59.	1
1,2-Dichlorobenzene	ND		ug/kg	600	110	1
1,3-Dichlorobenzene	ND		ug/kg	600	100	1
1,4-Dichlorobenzene	ND		ug/kg	600	100	1
3,3'-Dichlorobenzidine	ND		ug/kg	600	160	1
2,4-Dinitrotoluene	ND		ug/kg	600	120	1
2,6-Dinitrotoluene	ND		ug/kg	600	100	1
Fluoranthene	ND		ug/kg	360	69.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	600	64.	1
4-Bromophenyl phenyl ether	ND		ug/kg	600	91.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	720	100	1
Bis(2-chloroethoxy)methane	ND		ug/kg	650	60.	1
Hexachlorobutadiene	ND		ug/kg	600	88.	1
Hexachlorocyclopentadiene	ND		ug/kg	1700	540	1
Hexachloroethane	ND		ug/kg	480	97.	1
Isophorone	ND		ug/kg	540	78.	1
Naphthalene	ND		ug/kg	600	73.	1
Nitrobenzene	ND		ug/kg	540	89.	1
NDPA/DPA	ND		ug/kg	480	68.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	600	92.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	600	210	1
Butyl benzyl phthalate	ND		ug/kg	600	150	1
Di-n-butylphthalate	ND		ug/kg	600	110	1
Di-n-octylphthalate	ND		ug/kg	600	200	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11 Date Collected: 10/12/21 11:50

Client ID: B-6 (4-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	600	56.	1
Dimethyl phthalate	ND		ug/kg	600	120	1
Benzo(a)anthracene	ND		ug/kg	360	68.	1
Benzo(a)pyrene	ND		ug/kg	480	150	1
Benzo(b)fluoranthene	ND		ug/kg	360	100	1
Benzo(k)fluoranthene	ND		ug/kg	360	96.	1
Chrysene	ND		ug/kg	360	62.	1
Acenaphthylene	ND		ug/kg	480	92.	1
Anthracene	ND		ug/kg	360	120	1
Benzo(ghi)perylene	ND		ug/kg	480	70.	1
Fluorene	ND		ug/kg	600	58.	1
Phenanthrene	ND		ug/kg	360	73.	1
Dibenzo(a,h)anthracene	ND		ug/kg	360	69.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	480	84.	1
Pyrene	ND		ug/kg	360	60.	1
Biphenyl	ND		ug/kg	1400	140	1
4-Chloroaniline	ND		ug/kg	600	110	1
2-Nitroaniline	ND		ug/kg	600	120	1
3-Nitroaniline	ND		ug/kg	600	110	1
4-Nitroaniline	ND		ug/kg	600	250	1
Dibenzofuran	ND		ug/kg	600	57.	1
2-Methylnaphthalene	ND		ug/kg	720	72.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	600	62.	1
Acetophenone	ND		ug/kg	600	74.	1
2,4,6-Trichlorophenol	ND		ug/kg	360	110	1
p-Chloro-m-cresol	ND		ug/kg	600	89.	1
2-Chlorophenol	ND		ug/kg	600	71.	1
2,4-Dichlorophenol	ND		ug/kg	540	96.	1
2,4-Dimethylphenol	ND		ug/kg	600	200	1
2-Nitrophenol	ND		ug/kg	1300	220	1
4-Nitrophenol	ND		ug/kg	840	240	1
2,4-Dinitrophenol	ND		ug/kg	2900	280	1
4,6-Dinitro-o-cresol	ND		ug/kg	1600	290	1
Pentachlorophenol	ND		ug/kg	480	130	1
Phenol	ND		ug/kg	600	90.	1
2-Methylphenol	ND		ug/kg	600	93.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	860	94.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11 Date Collected: 10/12/21 11:50

Client ID: B-6 (4-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	600	110	1
Benzoic Acid	ND		ug/kg	1900	610	1
Benzyl Alcohol	ND		ug/kg	600	180	1
Carbazole	ND		ug/kg	600	58.	1
1,4-Dioxane	ND		ug/kg	90	28.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	107		25-120
Phenol-d6	115		10-120
Nitrobenzene-d5	118		23-120
2-Fluorobiphenyl	103		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	89		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12
Client ID: B-7 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:28
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 19:44
Analyst: JG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	220		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	6100		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	580		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12 Date Collected: 10/12/21 12:28

Client ID: B-7 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	4700		ug/kg	110	21.	1
Benzo(a)pyrene	4000		ug/kg	150	45.	1
Benzo(b)fluoranthene	5100		ug/kg	110	31.	1
Benzo(k)fluoranthene	1500		ug/kg	110	29.	1
Chrysene	3600		ug/kg	110	19.	1
Acenaphthylene	360		ug/kg	150	28.	1
Anthracene	1200		ug/kg	110	36.	1
Benzo(ghi)perylene	2900		ug/kg	150	22.	1
Fluorene	270		ug/kg	180	18.	1
Phenanthrene	3300		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	960		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	3100		ug/kg	150	26.	1
Pyrene	5300		ug/kg	110	18.	1
Biphenyl	70	J	ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	130	J	ug/kg	180	17.	1
2-Methylnaphthalene	620		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	49	J	ug/kg	260	29.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12 Date Collected: 10/12/21 12:28

Client ID: B-7 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	240		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	91		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13
Client ID: B-8 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 20:06
Analyst: JG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	590		ug/kg	460	59.	1
1,2,4-Trichlorobenzene	ND		ug/kg	570	66.	1
Hexachlorobenzene	ND		ug/kg	340	64.	1
Bis(2-chloroethyl)ether	ND		ug/kg	520	78.	1
2-Chloronaphthalene	ND		ug/kg	570	57.	1
1,2-Dichlorobenzene	ND		ug/kg	570	100	1
1,3-Dichlorobenzene	ND		ug/kg	570	99.	1
1,4-Dichlorobenzene	ND		ug/kg	570	100	1
3,3'-Dichlorobenzidine	ND		ug/kg	570	150	1
2,4-Dinitrotoluene	ND		ug/kg	570	110	1
2,6-Dinitrotoluene	ND		ug/kg	570	98.	1
Fluoranthene	10000		ug/kg	340	66.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	570	61.	1
4-Bromophenyl phenyl ether	ND		ug/kg	570	88.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	690	98.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	620	57.	1
Hexachlorobutadiene	ND		ug/kg	570	84.	1
Hexachlorocyclopentadiene	ND		ug/kg	1600	520	1
Hexachloroethane	ND		ug/kg	460	93.	1
Isophorone	ND		ug/kg	520	74.	1
Naphthalene	980		ug/kg	570	70.	1
Nitrobenzene	ND		ug/kg	520	85.	1
NDPA/DPA	ND		ug/kg	460	65.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	570	88.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	570	200	1
Butyl benzyl phthalate	ND		ug/kg	570	140	1
Di-n-butylphthalate	ND		ug/kg	570	110	1
Di-n-octylphthalate	ND		ug/kg	570	200	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13 Date Collected: 10/12/21 13:20

Client ID: B-8 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	570	53.	1
Dimethyl phthalate	ND		ug/kg	570	120	1
Benzo(a)anthracene	6200		ug/kg	340	64.	1
Benzo(a)pyrene	5500		ug/kg	460	140	1
Benzo(b)fluoranthene	7100		ug/kg	340	97.	1
Benzo(k)fluoranthene	2100		ug/kg	340	92.	1
Chrysene	5300		ug/kg	340	60.	1
Acenaphthylene	680		ug/kg	460	88.	1
Anthracene	2000		ug/kg	340	110	1
Benzo(ghi)perylene	3700		ug/kg	460	67.	1
Fluorene	800		ug/kg	570	56.	1
Phenanthrene	7800		ug/kg	340	70.	1
Dibenzo(a,h)anthracene	960		ug/kg	340	66.	1
Indeno(1,2,3-cd)pyrene	3900		ug/kg	460	80.	1
Pyrene	9400		ug/kg	340	57.	1
Biphenyl	ND		ug/kg	1300	130	1
4-Chloroaniline	ND		ug/kg	570	100	1
2-Nitroaniline	ND		ug/kg	570	110	1
3-Nitroaniline	ND		ug/kg	570	110	1
4-Nitroaniline	ND		ug/kg	570	240	1
Dibenzofuran	500	J	ug/kg	570	54.	1
2-Methylnaphthalene	490	J	ug/kg	690	69.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	570	60.	1
Acetophenone	240	J	ug/kg	570	71.	1
2,4,6-Trichlorophenol	ND		ug/kg	340	110	1
p-Chloro-m-cresol	ND		ug/kg	570	85.	1
2-Chlorophenol	ND		ug/kg	570	68.	1
2,4-Dichlorophenol	ND		ug/kg	520	92.	1
2,4-Dimethylphenol	ND		ug/kg	570	190	1
2-Nitrophenol	ND		ug/kg	1200	220	1
4-Nitrophenol	ND		ug/kg	800	230	1
2,4-Dinitrophenol	ND		ug/kg	2800	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	1500	280	1
Pentachlorophenol	ND		ug/kg	460	130	1
Phenol	ND		ug/kg	570	87.	1
2-Methylphenol	ND		ug/kg	570	89.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	830	90.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13 Date Collected: 10/12/21 13:20

Client ID: B-8 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	570	110	1
Benzoic Acid	ND		ug/kg	1800	580	1
Benzyl Alcohol	ND		ug/kg	570	180	1
Carbazole	1200		ug/kg	570	56.	1
1,4-Dioxane	ND		ug/kg	86	26.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	78		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14
Client ID: B-8 (7-8)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 20:28
Analyst: JG
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	380	J	ug/kg	510	66.	1
1,2,4-Trichlorobenzene	ND		ug/kg	640	73.	1
Hexachlorobenzene	ND		ug/kg	380	72.	1
Bis(2-chloroethyl)ether	ND		ug/kg	580	87.	1
2-Chloronaphthalene	ND		ug/kg	640	64.	1
1,2-Dichlorobenzene	ND		ug/kg	640	120	1
1,3-Dichlorobenzene	ND		ug/kg	640	110	1
1,4-Dichlorobenzene	ND		ug/kg	640	110	1
3,3'-Dichlorobenzidine	ND		ug/kg	640	170	1
2,4-Dinitrotoluene	ND		ug/kg	640	130	1
2,6-Dinitrotoluene	ND		ug/kg	640	110	1
Fluoranthene	6400		ug/kg	380	74.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	640	69.	1
4-Bromophenyl phenyl ether	ND		ug/kg	640	98.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	770	110	1
Bis(2-chloroethoxy)methane	ND		ug/kg	690	64.	1
Hexachlorobutadiene	ND		ug/kg	640	94.	1
Hexachlorocyclopentadiene	ND		ug/kg	1800	580	1
Hexachloroethane	ND		ug/kg	510	100	1
Isophorone	ND		ug/kg	580	83.	1
Naphthalene	300	J	ug/kg	640	78.	1
Nitrobenzene	ND		ug/kg	580	95.	1
NDPA/DPA	ND		ug/kg	510	73.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	640	99.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	640	220	1
Butyl benzyl phthalate	ND		ug/kg	640	160	1
Di-n-butylphthalate	ND		ug/kg	640	120	1
Di-n-octylphthalate	ND		ug/kg	640	220	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14
Client ID: B-8 (7-8)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	640	59.	1
Dimethyl phthalate	ND		ug/kg	640	130	1
Benzo(a)anthracene	4100		ug/kg	380	72.	1
Benzo(a)pyrene	3400		ug/kg	510	160	1
Benzo(b)fluoranthene	4100		ug/kg	380	110	1
Benzo(k)fluoranthene	1200		ug/kg	380	100	1
Chrysene	3800		ug/kg	380	67.	1
Acenaphthylene	420	J	ug/kg	510	99.	1
Anthracene	1200		ug/kg	380	120	1
Benzo(ghi)perylene	2100		ug/kg	510	75.	1
Fluorene	410	J	ug/kg	640	62.	1
Phenanthrene	5100		ug/kg	380	78.	1
Dibenzo(a,h)anthracene	520		ug/kg	380	74.	1
Indeno(1,2,3-cd)pyrene	2100		ug/kg	510	89.	1
Pyrene	6500		ug/kg	380	64.	1
Biphenyl	ND		ug/kg	1500	150	1
4-Chloroaniline	ND		ug/kg	640	120	1
2-Nitroaniline	ND		ug/kg	640	120	1
3-Nitroaniline	ND		ug/kg	640	120	1
4-Nitroaniline	ND		ug/kg	640	260	1
Dibenzofuran	150	J	ug/kg	640	61.	1
2-Methylnaphthalene	190	J	ug/kg	770	78.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	640	67.	1
Acetophenone	ND		ug/kg	640	79.	1
2,4,6-Trichlorophenol	ND		ug/kg	380	120	1
p-Chloro-m-cresol	ND		ug/kg	640	96.	1
2-Chlorophenol	ND		ug/kg	640	76.	1
2,4-Dichlorophenol	ND		ug/kg	580	100	1
2,4-Dimethylphenol	ND		ug/kg	640	210	1
2-Nitrophenol	ND		ug/kg	1400	240	1
4-Nitrophenol	ND		ug/kg	900	260	1
2,4-Dinitrophenol	ND		ug/kg	3100	300	1
4,6-Dinitro-o-cresol	ND		ug/kg	1700	310	1
Pentachlorophenol	ND		ug/kg	510	140	1
Phenol	ND		ug/kg	640	97.	1
2-Methylphenol	ND		ug/kg	640	99.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	920	100	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14 Date Collected: 10/12/21 13:30

Client ID: B-8 (7-8) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	640	120	1
Benzoic Acid	ND		ug/kg	2100	650	1
Benzyl Alcohol	ND		ug/kg	640	200	1
Carbazole	390	J	ug/kg	640	62.	1
1,4-Dioxane	ND		ug/kg	96	30.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	58		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15
Client ID: B-7 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:35
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 04:53
Analyst: JRW
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	41	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1200		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	370		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	140	J	ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15 Date Collected: 10/12/21 12:35
Client ID: B-7 (4-5) Date Received: 10/14/21
Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	590		ug/kg	120	22.	1
Benzo(a)pyrene	510		ug/kg	160	48.	1
Benzo(b)fluoranthene	670		ug/kg	120	34.	1
Benzo(k)fluoranthene	190		ug/kg	120	32.	1
Chrysene	520		ug/kg	120	21.	1
Acenaphthylene	80	J	ug/kg	160	31.	1
Anthracene	160		ug/kg	120	39.	1
Benzo(ghi)perylene	350		ug/kg	160	23.	1
Fluorene	86	J	ug/kg	200	19.	1
Phenanthrene	780		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	77	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	340		ug/kg	160	28.	1
Pyrene	980		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	46	J	ug/kg	200	19.	1
2-Methylnaphthalene	86	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15 Date Collected: 10/12/21 12:35

Client ID: B-7 (4-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	56	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	60		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16
Client ID: B-11 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 04:07
Analyst: JRW
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	26	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	810		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	54	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16 Date Collected: 10/12/21 12:55

Client ID: B-11 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	600		ug/kg	110	21.	1
Benzo(a)pyrene	670		ug/kg	150	46.	1
Benzo(b)fluoranthene	840		ug/kg	110	32.	1
Benzo(k)fluoranthene	220		ug/kg	110	30.	1
Chrysene	590		ug/kg	110	20.	1
Acenaphthylene	35	J	ug/kg	150	29.	1
Anthracene	100	J	ug/kg	110	37.	1
Benzo(ghi)perylene	440		ug/kg	150	22.	1
Fluorene	33	J	ug/kg	190	18.	1
Phenanthrene	380		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	110		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	440		ug/kg	150	26.	1
Pyrene	790		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	32	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16 Date Collected: 10/12/21 12:55

Client ID: B-11 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	53	J	ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	58		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17
Client ID: B-11 (6-7)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 01:24
Analyst: JRW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17 Date Collected: 10/12/21 13:00

Client ID: B-11 (6-7) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17 Date Collected: 10/12/21 13:00

Client ID: B-11 (6-7) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	71		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19
Client ID: B-13 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 14:05
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 23:50
Analyst: JRW
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19 Date Collected: 10/12/21 14:05

Client ID: B-13 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19 Date Collected: 10/12/21 14:05

Client ID: B-13 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	59		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21
Client ID: B-13 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 00:14
Analyst: JRW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21
Client ID: B-13 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	89.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	71.	1
2-Nitrophenol	ND		ug/kg	460	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21 Date Collected: 10/12/21 15:15

Client ID: B-13 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	700	220	1
Benzyl Alcohol	ND		ug/kg	210	66.	1
Carbazole	ND		ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	65		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22
Client ID: B-14 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 02:57
Analyst: JRW
Percent Solids: 53%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	54	J	ug/kg	250	32.	1
1,2,4-Trichlorobenzene	ND		ug/kg	310	36.	1
Hexachlorobenzene	ND		ug/kg	190	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	280	42.	1
2-Chloronaphthalene	ND		ug/kg	310	31.	1
1,2-Dichlorobenzene	ND		ug/kg	310	56.	1
1,3-Dichlorobenzene	ND		ug/kg	310	54.	1
1,4-Dichlorobenzene	ND		ug/kg	310	54.	1
3,3'-Dichlorobenzidine	ND		ug/kg	310	83.	1
2,4-Dinitrotoluene	ND		ug/kg	310	62.	1
2,6-Dinitrotoluene	ND		ug/kg	310	54.	1
Fluoranthene	410		ug/kg	190	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	310	33.	1
4-Bromophenyl phenyl ether	ND		ug/kg	310	48.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	370	53.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	340	31.	1
Hexachlorobutadiene	ND		ug/kg	310	46.	1
Hexachlorocyclopentadiene	ND		ug/kg	890	280	1
Hexachloroethane	ND		ug/kg	250	50.	1
Isophorone	ND		ug/kg	280	40.	1
Naphthalene	800		ug/kg	310	38.	1
Nitrobenzene	ND		ug/kg	280	46.	1
NDPA/DPA	ND		ug/kg	250	36.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	310	48.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	310	110	1
Butyl benzyl phthalate	ND		ug/kg	310	79.	1
Di-n-butylphthalate	ND		ug/kg	310	59.	1
Di-n-octylphthalate	ND		ug/kg	310	110	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22 Date Collected: 10/12/21 15:30

Client ID: B-14 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	310	29.	1
Dimethyl phthalate	ND		ug/kg	310	66.	1
Benzo(a)anthracene	320		ug/kg	190	35.	1
Benzo(a)pyrene	360		ug/kg	250	76.	1
Benzo(b)fluoranthene	360		ug/kg	190	52.	1
Benzo(k)fluoranthene	110	J	ug/kg	190	50.	1
Chrysene	300		ug/kg	190	32.	1
Acenaphthylene	130	J	ug/kg	250	48.	1
Anthracene	150	J	ug/kg	190	61.	1
Benzo(ghi)perylene	240	J	ug/kg	250	37.	1
Fluorene	90	J	ug/kg	310	30.	1
Phenanthrene	280		ug/kg	190	38.	1
Dibenzo(a,h)anthracene	50	J	ug/kg	190	36.	1
Indeno(1,2,3-cd)pyrene	210	J	ug/kg	250	44.	1
Pyrene	470		ug/kg	190	31.	1
Biphenyl	94	J	ug/kg	710	72.	1
4-Chloroaniline	ND		ug/kg	310	57.	1
2-Nitroaniline	ND		ug/kg	310	60.	1
3-Nitroaniline	ND		ug/kg	310	59.	1
4-Nitroaniline	ND		ug/kg	310	130	1
Dibenzofuran	32	J	ug/kg	310	30.	1
2-Methylnaphthalene	180	J	ug/kg	370	38.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	310	33.	1
Acetophenone	ND		ug/kg	310	39.	1
2,4,6-Trichlorophenol	ND		ug/kg	190	59.	1
p-Chloro-m-cresol	ND		ug/kg	310	46.	1
2-Chlorophenol	ND		ug/kg	310	37.	1
2,4-Dichlorophenol	ND		ug/kg	280	50.	1
2,4-Dimethylphenol	ND		ug/kg	310	100	1
2-Nitrophenol	ND		ug/kg	670	120	1
4-Nitrophenol	ND		ug/kg	440	130	1
2,4-Dinitrophenol	ND		ug/kg	1500	140	1
4,6-Dinitro-o-cresol	ND		ug/kg	810	150	1
Pentachlorophenol	ND		ug/kg	250	69.	1
Phenol	ND		ug/kg	310	47.	1
2-Methylphenol	ND		ug/kg	310	48.	1
3-Methylphenol/4-Methylphenol	160	J	ug/kg	450	49.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22 Date Collected: 10/12/21 15:30

Client ID: B-14 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	310	60.	1
Benzoic Acid	ND		ug/kg	1000	320	1
Benzyl Alcohol	ND		ug/kg	310	96.	1
Carbazole	ND		ug/kg	310	30.	1
1,4-Dioxane	ND		ug/kg	47	14.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	66		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25
Client ID: B-15 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 02:10
Analyst: JRW
Percent Solids: 65%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	200	26.	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	29.	1
Hexachlorobenzene	ND		ug/kg	150	29.	1
Bis(2-chloroethyl)ether	ND		ug/kg	230	35.	1
2-Chloronaphthalene	ND		ug/kg	260	25.	1
1,2-Dichlorobenzene	ND		ug/kg	260	46.	1
1,3-Dichlorobenzene	ND		ug/kg	260	44.	1
1,4-Dichlorobenzene	ND		ug/kg	260	45.	1
3,3'-Dichlorobenzidine	ND		ug/kg	260	68.	1
2,4-Dinitrotoluene	ND		ug/kg	260	51.	1
2,6-Dinitrotoluene	ND		ug/kg	260	44.	1
Fluoranthene	290		ug/kg	150	29.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	260	27.	1
4-Bromophenyl phenyl ether	ND		ug/kg	260	39.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	310	44.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	280	26.	1
Hexachlorobutadiene	ND		ug/kg	260	37.	1
Hexachlorocyclopentadiene	ND		ug/kg	730	230	1
Hexachloroethane	ND		ug/kg	200	41.	1
Isophorone	ND		ug/kg	230	33.	1
Naphthalene	300		ug/kg	260	31.	1
Nitrobenzene	ND		ug/kg	230	38.	1
NDPA/DPA	ND		ug/kg	200	29.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	260	39.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	260	88.	1
Butyl benzyl phthalate	ND		ug/kg	260	64.	1
Di-n-butylphthalate	ND		ug/kg	260	48.	1
Di-n-octylphthalate	ND		ug/kg	260	87.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25 Date Collected: 10/12/21 15:15

Client ID: B-15 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	260	24.	1
Dimethyl phthalate	ND		ug/kg	260	54.	1
Benzo(a)anthracene	270		ug/kg	150	29.	1
Benzo(a)pyrene	360		ug/kg	200	62.	1
Benzo(b)fluoranthene	380		ug/kg	150	43.	1
Benzo(k)fluoranthene	100	J	ug/kg	150	41.	1
Chrysene	280		ug/kg	150	26.	1
Acenaphthylene	130	J	ug/kg	200	39.	1
Anthracene	ND		ug/kg	150	50.	1
Benzo(ghi)perylene	240		ug/kg	200	30.	1
Fluorene	ND		ug/kg	260	25.	1
Phenanthrene	170		ug/kg	150	31.	1
Dibenzo(a,h)anthracene	49	J	ug/kg	150	30.	1
Indeno(1,2,3-cd)pyrene	220		ug/kg	200	36.	1
Pyrene	330		ug/kg	150	25.	1
Biphenyl	ND		ug/kg	580	59.	1
4-Chloroaniline	ND		ug/kg	260	46.	1
2-Nitroaniline	ND		ug/kg	260	49.	1
3-Nitroaniline	ND		ug/kg	260	48.	1
4-Nitroaniline	ND		ug/kg	260	100	1
Dibenzofuran	ND		ug/kg	260	24.	1
2-Methylnaphthalene	56	J	ug/kg	310	31.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	260	27.	1
Acetophenone	ND		ug/kg	260	32.	1
2,4,6-Trichlorophenol	ND		ug/kg	150	48.	1
p-Chloro-m-cresol	ND		ug/kg	260	38.	1
2-Chlorophenol	ND		ug/kg	260	30.	1
2,4-Dichlorophenol	ND		ug/kg	230	41.	1
2,4-Dimethylphenol	ND		ug/kg	260	84.	1
2-Nitrophenol	ND		ug/kg	550	96.	1
4-Nitrophenol	ND		ug/kg	360	100	1
2,4-Dinitrophenol	ND		ug/kg	1200	120	1
4,6-Dinitro-o-cresol	ND		ug/kg	660	120	1
Pentachlorophenol	ND		ug/kg	200	56.	1
Phenol	ND		ug/kg	260	39.	1
2-Methylphenol	ND		ug/kg	260	40.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	370	40.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25
Client ID: B-15 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	260	49.	1
Benzoic Acid	ND		ug/kg	830	260	1
Benzyl Alcohol	ND		ug/kg	260	78.	1
Carbazole	ND		ug/kg	260	25.	1
1,4-Dioxane	ND		ug/kg	38	12.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	64		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26
Client ID: B-16 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/20/21 01:00
Analyst: JRW
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	170	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26 Date Collected: 10/12/21 15:40

Client ID: B-16 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26 Date Collected: 10/12/21 15:40

Client ID: B-16 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	80		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27
Client ID: B-16 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 23:27
Analyst: JRW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27 Date Collected: 10/12/21 15:45

Client ID: B-16 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27 Date Collected: 10/12/21 15:45

Client ID: B-16 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	76		18-120

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-28
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/12/21 08:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/18/21 18:33
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 10/16/21 07:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-28 Date Collected: 10/12/21 08:45

Client ID: FB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-28 Date Collected: 10/12/21 08:45

Client ID: FB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	85		41-149

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30
Client ID: B-10 (0.5-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 09:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 04:41
Analyst: JG
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	66	J	ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	240		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	140	J	ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30 Date Collected: 10/13/21 09:00

Client ID: B-10 (0.5-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	47	J	ug/kg	110	20.	1
Benzo(a)pyrene	52	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	68	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	55	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	45	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	64	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	76	J	ug/kg	140	25.	1
Pyrene	71	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	230		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30 Date Collected: 10/13/21 09:00

Client ID: B-10 (0.5-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	71		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32
Client ID: B-22 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 10:21
Analyst: JG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	340		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	69	J	ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	130	J	ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	42	J	ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	5400		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	180		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	250		ug/kg	180	62.	1
Butyl benzyl phthalate	430		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32 Date Collected: 10/13/21 10:50

Client ID: B-22 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	2600		ug/kg	110	20.	1
Benzo(a)pyrene	2800		ug/kg	140	44.	1
Benzo(b)fluoranthene	3800		ug/kg	110	30.	1
Benzo(k)fluoranthene	910		ug/kg	110	29.	1
Chrysene	2500		ug/kg	110	19.	1
Acenaphthylene	220		ug/kg	140	28.	1
Anthracene	980		ug/kg	110	35.	1
Benzo(ghi)perylene	2100		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	3300		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	490		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	2100		ug/kg	140	25.	1
Pyrene	4600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	180		ug/kg	180	17.	1
2-Methylnaphthalene	160	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	34	J	ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	34	J	ug/kg	260	28.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32 Date Collected: 10/13/21 10:50

Client ID: B-22 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	420		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	65		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33
Client ID: B-22 (14-15)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 02:03
Analyst: JG
Percent Solids: 67%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	190	25.	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	28.	1
Hexachlorobenzene	ND		ug/kg	140	27.	1
Bis(2-chloroethyl)ether	ND		ug/kg	220	33.	1
2-Chloronaphthalene	ND		ug/kg	240	24.	1
1,2-Dichlorobenzene	ND		ug/kg	240	43.	1
1,3-Dichlorobenzene	ND		ug/kg	240	42.	1
1,4-Dichlorobenzene	ND		ug/kg	240	42.	1
3,3'-Dichlorobenzidine	ND		ug/kg	240	64.	1
2,4-Dinitrotoluene	ND		ug/kg	240	48.	1
2,6-Dinitrotoluene	ND		ug/kg	240	42.	1
Fluoranthene	ND		ug/kg	140	28.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	240	26.	1
4-Bromophenyl phenyl ether	ND		ug/kg	240	37.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	290	41.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	260	24.	1
Hexachlorobutadiene	ND		ug/kg	240	35.	1
Hexachlorocyclopentadiene	ND		ug/kg	690	220	1
Hexachloroethane	ND		ug/kg	190	39.	1
Isophorone	ND		ug/kg	220	31.	1
Naphthalene	ND		ug/kg	240	29.	1
Nitrobenzene	ND		ug/kg	220	36.	1
NDPA/DPA	ND		ug/kg	190	28.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	240	37.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	240	84.	1
Butyl benzyl phthalate	ND		ug/kg	240	61.	1
Di-n-butylphthalate	ND		ug/kg	240	46.	1
Di-n-octylphthalate	ND		ug/kg	240	82.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33 Date Collected: 10/13/21 10:55

Client ID: B-22 (14-15) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	240	22.	1
Dimethyl phthalate	ND		ug/kg	240	51.	1
Benzo(a)anthracene	ND		ug/kg	140	27.	1
Benzo(a)pyrene	ND		ug/kg	190	59.	1
Benzo(b)fluoranthene	ND		ug/kg	140	41.	1
Benzo(k)fluoranthene	ND		ug/kg	140	39.	1
Chrysene	ND		ug/kg	140	25.	1
Acenaphthylene	ND		ug/kg	190	37.	1
Anthracene	ND		ug/kg	140	47.	1
Benzo(ghi)perylene	ND		ug/kg	190	28.	1
Fluorene	ND		ug/kg	240	24.	1
Phenanthrene	ND		ug/kg	140	29.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	28.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	190	34.	1
Pyrene	ND		ug/kg	140	24.	1
Biphenyl	ND		ug/kg	550	56.	1
4-Chloroaniline	ND		ug/kg	240	44.	1
2-Nitroaniline	ND		ug/kg	240	47.	1
3-Nitroaniline	ND		ug/kg	240	46.	1
4-Nitroaniline	ND		ug/kg	240	100	1
Dibenzofuran	ND		ug/kg	240	23.	1
2-Methylnaphthalene	ND		ug/kg	290	29.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	240	25.	1
Acetophenone	ND		ug/kg	240	30.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	46.	1
p-Chloro-m-cresol	ND		ug/kg	240	36.	1
2-Chlorophenol	ND		ug/kg	240	29.	1
2,4-Dichlorophenol	ND		ug/kg	220	39.	1
2,4-Dimethylphenol	ND		ug/kg	240	80.	1
2-Nitrophenol	ND		ug/kg	520	91.	1
4-Nitrophenol	ND		ug/kg	340	99.	1
2,4-Dinitrophenol	ND		ug/kg	1200	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	630	120	1
Pentachlorophenol	ND		ug/kg	190	53.	1
Phenol	ND		ug/kg	240	36.	1
2-Methylphenol	ND		ug/kg	240	38.	1
3-Methylphenol/4-Methylphenol	490		ug/kg	350	38.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33 Date Collected: 10/13/21 10:55

Client ID: B-22 (14-15) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	240	46.	1
Benzoic Acid	ND		ug/kg	780	240	1
Benzyl Alcohol	ND		ug/kg	240	74.	1
Carbazole	ND		ug/kg	240	24.	1
1,4-Dioxane	ND		ug/kg	36	11.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	74		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35
Client ID: B-23 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/21/21 02:48
Analyst: JG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	160		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35 Date Collected: 10/13/21 10:20

Client ID: B-23 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	71	J	ug/kg	120	22.	1
Benzo(a)pyrene	62	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	85	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	61	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	39	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	120		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	81	J	ug/kg	160	27.	1
Pyrene	120		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	45.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35 Date Collected: 10/13/21 10:20

Client ID: B-23 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	70		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36 D
Client ID: B-24 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/28/21 02:52
Analyst: IM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	7800		ug/kg	1500	190	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	210	10
Hexachlorobenzene	ND		ug/kg	1100	210	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	250	10
2-Chloronaphthalene	ND		ug/kg	1900	180	10
1,2-Dichlorobenzene	ND		ug/kg	1900	340	10
1,3-Dichlorobenzene	ND		ug/kg	1900	320	10
1,4-Dichlorobenzene	ND		ug/kg	1900	320	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	500	10
2,4-Dinitrotoluene	ND		ug/kg	1900	370	10
2,6-Dinitrotoluene	ND		ug/kg	1900	320	10
Fluoranthene	56000		ug/kg	1100	210	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	200	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	280	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	320	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	190	10
Hexachlorobutadiene	ND		ug/kg	1900	270	10
Hexachlorocyclopentadiene	ND		ug/kg	5300	1700	10
Hexachloroethane	ND		ug/kg	1500	300	10
Isophorone	ND		ug/kg	1700	240	10
Naphthalene	5800		ug/kg	1900	230	10
Nitrobenzene	ND		ug/kg	1700	280	10
NDPA/DPA	ND		ug/kg	1500	210	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	290	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1900	640	10
Butyl benzyl phthalate	ND		ug/kg	1900	470	10
Di-n-butylphthalate	ND		ug/kg	1900	350	10
Di-n-octylphthalate	ND		ug/kg	1900	630	10

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36 D
Client ID: B-24 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	1900	170	10
Dimethyl phthalate	ND		ug/kg	1900	390	10
Benzo(a)anthracene	37000		ug/kg	1100	210	10
Benzo(a)pyrene	31000		ug/kg	1500	460	10
Benzo(b)fluoranthene	41000		ug/kg	1100	310	10
Benzo(k)fluoranthene	12000		ug/kg	1100	300	10
Chrysene	28000		ug/kg	1100	190	10
Acenaphthylene	1700		ug/kg	1500	290	10
Anthracene	16000		ug/kg	1100	360	10
Benzo(ghi)perylene	19000		ug/kg	1500	220	10
Fluorene	7400		ug/kg	1900	180	10
Phenanthrene	48000		ug/kg	1100	230	10
Dibenzo(a,h)anthracene	4500		ug/kg	1100	220	10
Indeno(1,2,3-cd)pyrene	22000		ug/kg	1500	260	10
Pyrene	48000		ug/kg	1100	180	10
Biphenyl	610	J	ug/kg	4200	430	10
4-Chloroaniline	ND		ug/kg	1900	340	10
2-Nitroaniline	ND		ug/kg	1900	360	10
3-Nitroaniline	ND		ug/kg	1900	350	10
4-Nitroaniline	ND		ug/kg	1900	770	10
Dibenzofuran	4700		ug/kg	1900	180	10
2-Methylnaphthalene	2100	J	ug/kg	2200	220	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	190	10
Acetophenone	ND		ug/kg	1900	230	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	350	10
p-Chloro-m-cresol	ND		ug/kg	1900	280	10
2-Chlorophenol	ND		ug/kg	1900	220	10
2,4-Dichlorophenol	ND		ug/kg	1700	300	10
2,4-Dimethylphenol	ND		ug/kg	1900	620	10
2-Nitrophenol	ND		ug/kg	4000	700	10
4-Nitrophenol	ND		ug/kg	2600	760	10
2,4-Dinitrophenol	ND		ug/kg	9000	870	10
4,6-Dinitro-o-cresol	ND		ug/kg	4800	900	10
Pentachlorophenol	ND		ug/kg	1500	410	10
Phenol	ND		ug/kg	1900	280	10
2-Methylphenol	ND		ug/kg	1900	290	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2700	290	10

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36 D
Client ID: B-24 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	1900	360	10
Benzoic Acid	ND		ug/kg	6000	1900	10
Benzyl Alcohol	ND		ug/kg	1900	570	10
Carbazole	9900		ug/kg	1900	180	10
1,4-Dioxane	ND		ug/kg	280	86.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	64		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37
Client ID: B-24 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 14:47
Analyst: IM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 00:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37 Date Collected: 10/13/21 11:25

Client ID: B-24 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37 Date Collected: 10/13/21 11:25

Client ID: B-24 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	76		18-120

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-38
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/13/21 08:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/22/21 00:57
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 10/20/21 03:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-38 Date Collected: 10/13/21 08:00

Client ID: FB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-38 Date Collected: 10/13/21 08:00

Client ID: FB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	74		41-149

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41
Client ID: B-17 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 15:11
Analyst: IM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 00:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	120	J	ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41 Date Collected: 10/14/21 10:00

Client ID: B-17 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	30	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	37	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	45	J	ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41 Date Collected: 10/14/21 10:00

Client ID: B-17 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	48		10-136
4-Terphenyl-d14	44		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42
Client ID: B-18 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 15:35
Analyst: IM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 00:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	310		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	46	J	ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42 Date Collected: 10/14/21 10:55

Client ID: B-18 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	190		ug/kg	100	19.	1
Benzo(a)pyrene	180		ug/kg	140	42.	1
Benzo(b)fluoranthene	210		ug/kg	100	29.	1
Benzo(k)fluoranthene	79	J	ug/kg	100	27.	1
Chrysene	190		ug/kg	100	18.	1
Acenaphthylene	50	J	ug/kg	140	26.	1
Anthracene	80	J	ug/kg	100	33.	1
Benzo(ghi)perylene	140		ug/kg	140	20.	1
Fluorene	21	J	ug/kg	170	17.	1
Phenanthrene	180		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	32	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	140		ug/kg	140	24.	1
Pyrene	320		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	34	J	ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42 Date Collected: 10/14/21 10:55

Client ID: B-18 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	18	J	ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	106		10-120
Nitrobenzene-d5	109		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	84		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43
Client ID: B-20 (11-12)
Sample Location: BRONX, NY

Date Collected: 10/14/21 11:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 10/19/21 15:58
Analyst: IM
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 00:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43 Date Collected: 10/14/21 11:40

Client ID: B-20 (11-12) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	970	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43 Date Collected: 10/14/21 11:40

Client ID: B-20 (11-12) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	63		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/16/21 15:04
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 10/15/21 09:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 28 Batch: WG1559061-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/16/21 15:04
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 10/15/21 09:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 28 Batch: WG1559061-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/16/21 15:04
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 10/15/21 09:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 28 Batch: WG1559061-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	46		10-120
4-Terphenyl-d14	58		41-149

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/19/21 12:54
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08-09,11-14 Batch: WG1559692-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	57.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	31.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/19/21 12:54
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08-09,11-14 Batch: WG1559692-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/19/21 12:54
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 10/17/21 13:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08-09,11-14 Batch: WG1559692-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	93		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/19/21 22:17
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 Batch: WG1559701-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/19/21 22:17
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 Batch: WG1559701-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/19/21 22:17
Analyst: JRW

Extraction Method: EPA 3546
Extraction Date: 10/17/21 15:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 Batch: WG1559701-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	77		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/19/21 13:37
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/18/21 00:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 37,41-43 Batch: WG1559757-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/19/21 13:37
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/18/21 00:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 37,41-43 Batch: WG1559757-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/19/21 13:37
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/18/21 00:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 37,41-43 Batch: WG1559757-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	81		18-120

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/20/21 01:26
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 10/19/21 14:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 38 Batch: WG1560544-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/20/21 01:26
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 10/19/21 14:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 38 Batch: WG1560544-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 10/20/21 01:26
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 10/19/21 14:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 38 Batch: WG1560544-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	47		10-120
4-Terphenyl-d14	66		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28 Batch: WG1559061-2 WG1559061-3								
Acenaphthene	44		68		37-111	**43**	Q	30
1,2,4-Trichlorobenzene	50		74		39-98	**39**	Q	30
Hexachlorobenzene	46		68		40-140	**39**	Q	30
Bis(2-chloroethyl)ether	45		69		40-140	**42**	Q	30
2-Chloronaphthalene	46		70		40-140	**41**	Q	30
1,2-Dichlorobenzene	49		70		40-140	**35**	Q	30
1,3-Dichlorobenzene	48		66		40-140	**32**	Q	30
1,4-Dichlorobenzene	49		71		36-97	**37**	Q	30
3,3'-Dichlorobenzidine	44		62		40-140	**34**	Q	30
2,4-Dinitrotoluene	**43**	Q	69		48-143	**46**	Q	30
2,6-Dinitrotoluene	46		74		40-140	**47**	Q	30
Fluoranthene	46		73		40-140	**45**	Q	30
4-Chlorophenyl phenyl ether	49		76		40-140	**43**	Q	30
4-Bromophenyl phenyl ether	46		70		40-140	**41**	Q	30
Bis(2-chloroisopropyl)ether	40		62		40-140	**43**	Q	30
Bis(2-chloroethoxy)methane	46		70		40-140	**41**	Q	30
Hexachlorobutadiene	49		73		40-140	**39**	Q	30
Hexachlorocyclopentadiene	42		63		40-140	**40**	Q	30
Hexachloroethane	44		65		40-140	**39**	Q	30
Isophorone	43		72		40-140	**50**	Q	30
Naphthalene	46		69		40-140	**40**	Q	30
Nitrobenzene	49		71		40-140	**37**	Q	30
NDPA/DPA	48		74		40-140	**43**	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28 Batch: WG1559061-2 WG1559061-3								
n-Nitrosodi-n-propylamine	44		68		29-132	**43**	Q	30
Bis(2-ethylhexyl)phthalate	40		61		40-140	**42**	Q	30
Butyl benzyl phthalate	40		66		40-140	**49**	Q	30
Di-n-butylphthalate	42		67		40-140	**46**	Q	30
Di-n-octylphthalate	45		64		40-140	**35**	Q	30
Diethyl phthalate	44		66		40-140	**40**	Q	30
Dimethyl phthalate	46		70		40-140	**41**	Q	30
Benzo(a)anthracene	49		72		40-140	**38**	Q	30
Benzo(a)pyrene	51		77		40-140	**41**	Q	30
Benzo(b)fluoranthene	49		73		40-140	**39**	Q	30
Benzo(k)fluoranthene	51		75		40-140	**38**	Q	30
Chrysene	49		72		40-140	**38**	Q	30
Acenaphthylene	48		72		45-123	**40**	Q	30
Anthracene	48		70		40-140	**37**	Q	30
Benzo(ghi)perylene	51		76		40-140	**39**	Q	30
Fluorene	47		72		40-140	**42**	Q	30
Phenanthrene	45		69		40-140	**42**	Q	30
Dibenzo(a,h)anthracene	52		76		40-140	**38**	Q	30
Indeno(1,2,3-cd)pyrene	51		75		40-140	**38**	Q	30
Pyrene	46		73		26-127	**45**	Q	30
Biphenyl	49		75		40-140	**42**	Q	30
4-Chloroaniline	47		69		40-140	**38**	Q	30
2-Nitroaniline	**48**	Q	70		52-143	**37**	Q	30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28 Batch: WG1559061-2 WG1559061-3								
3-Nitroaniline	41		64		25-145	**44**	Q	30
4-Nitroaniline	**40**	Q	64		51-143	**46**	Q	30
Dibenzofuran	47		72		40-140	**42**	Q	30
2-Methylnaphthalene	46		72		40-140	**44**	Q	30
1,2,4,5-Tetrachlorobenzene	52		78		2-134	**40**	Q	30
Acetophenone	49		72		39-129	**38**	Q	30
2,4,6-Trichlorophenol	51		74		30-130	**37**	Q	30
p-Chloro-m-cresol	50		75		23-97	**40**	Q	30
2-Chlorophenol	48		73		27-123	**41**	Q	30
2,4-Dichlorophenol	54		79		30-130	**38**	Q	30
2,4-Dimethylphenol	52		76		30-130	**38**	Q	30
2-Nitrophenol	49		74		30-130	**41**	Q	30
4-Nitrophenol	39		60		10-80	**42**	Q	30
2,4-Dinitrophenol	47		59		20-130	23		30
4,6-Dinitro-o-cresol	44		64		20-164	**37**	Q	30
Pentachlorophenol	40		66		9-103	**49**	Q	30
Phenol	38		60		12-110	**45**	Q	30
2-Methylphenol	51		74		30-130	**37**	Q	30
3-Methylphenol/4-Methylphenol	51		75		30-130	**38**	Q	30
2,4,5-Trichlorophenol	50		77		30-130	**43**	Q	30
Benzoic Acid	21		29		10-164	**32**	Q	30
Benzyl Alcohol	48		75		26-116	**44**	Q	30
Carbazole	**46**	Q	72		55-144	**44**	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 28 Batch: WG1559061-2 WG1559061-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	45		66		21-120
Phenol-d6	36		53		10-120
Nitrobenzene-d5	46		66		23-120
2-Fluorobiphenyl	44		67		15-120
2,4,6-Tribromophenol	39		63		10-120
4-Terphenyl-d14	46		71		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08-09,11-14 Batch: WG1559692-2 WG1559692-3								
Acenaphthene	77		91		31-137	17		50
1,2,4-Trichlorobenzene	70		86		38-107	21		50
Hexachlorobenzene	83		99		40-140	18		50
Bis(2-chloroethyl)ether	64		79		40-140	21		50
2-Chloronaphthalene	75		90		40-140	18		50
1,2-Dichlorobenzene	69		82		40-140	17		50
1,3-Dichlorobenzene	66		79		40-140	18		50
1,4-Dichlorobenzene	67		80		28-104	18		50
3,3'-Dichlorobenzidine	70		89		40-140	24		50
2,4-Dinitrotoluene	80		97		40-132	19		50
2,6-Dinitrotoluene	78		95		40-140	20		50
Fluoranthene	81		98		40-140	19		50
4-Chlorophenyl phenyl ether	77		93		40-140	19		50
4-Bromophenyl phenyl ether	82		99		40-140	19		50
Bis(2-chloroisopropyl)ether	61		74		40-140	19		50
Bis(2-chloroethoxy)methane	70		86		40-117	21		50
Hexachlorobutadiene	71		87		40-140	20		50
Hexachlorocyclopentadiene	62		77		40-140	22		50
Hexachloroethane	65		80		40-140	21		50
Isophorone	72		87		40-140	19		50
Naphthalene	73		86		40-140	16		50
Nitrobenzene	70		84		40-140	18		50
NDPA/DPA	80		97		36-157	19		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08-09,11-14 Batch: WG1559692-2 WG1559692-3								
n-Nitrosodi-n-propylamine	70		84		32-121	18		50
Bis(2-ethylhexyl)phthalate	83		101		40-140	20		50
Butyl benzyl phthalate	86		105		40-140	20		50
Di-n-butylphthalate	84		101		40-140	18		50
Di-n-octylphthalate	84		103		40-140	20		50
Diethyl phthalate	76		93		40-140	20		50
Dimethyl phthalate	80		95		40-140	17		50
Benzo(a)anthracene	78		93		40-140	18		50
Benzo(a)pyrene	73		91		40-140	22		50
Benzo(b)fluoranthene	79		97		40-140	20		50
Benzo(k)fluoranthene	82		104		40-140	24		50
Chrysene	74		90		40-140	20		50
Acenaphthylene	77		91		40-140	17		50
Anthracene	76		92		40-140	19		50
Benzo(ghi)perylene	76		96		40-140	23		50
Fluorene	80		97		40-140	19		50
Phenanthrene	75		90		40-140	18		50
Dibenzo(a,h)anthracene	81		101		40-140	22		50
Indeno(1,2,3-cd)pyrene	78		97		40-140	22		50
Pyrene	79		96		35-142	19		50
Biphenyl	74		88		37-127	17		50
4-Chloroaniline	57		64		40-140	12		50
2-Nitroaniline	83		100		47-134	19		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08-09,11-14 Batch: WG1559692-2 WG1559692-3								
3-Nitroaniline	66		80		26-129	19		50
4-Nitroaniline	74		88		41-125	17		50
Dibenzofuran	76		93		40-140	20		50
2-Methylnaphthalene	73		87		40-140	18		50
1,2,4,5-Tetrachlorobenzene	76		93		40-117	20		50
Acetophenone	70		84		14-144	18		50
2,4,6-Trichlorophenol	82		99		30-130	19		50
p-Chloro-m-cresol	80		96		26-103	18		50
2-Chlorophenol	73		89		25-102	20		50
2,4-Dichlorophenol	81		99		30-130	20		50
2,4-Dimethylphenol	77		94		30-130	20		50
2-Nitrophenol	78		92		30-130	16		50
4-Nitrophenol	68		86		11-114	23		50
2,4-Dinitrophenol	46		64		4-130	33		50
4,6-Dinitro-o-cresol	83		103		10-130	22		50
Pentachlorophenol	79		95		17-109	18		50
Phenol	76		90		26-90	17		50
2-Methylphenol	78		93		30-130.	18		50
3-Methylphenol/4-Methylphenol	83		99		30-130	18		50
2,4,5-Trichlorophenol	85		103		30-130	19		50
Benzoic Acid	**3**	Q	**5**	Q	10-110	**68**	Q	50
Benzyl Alcohol	74		91		40-140	21		50
Carbazole	78		93		54-128	18		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08-09,11-14 Batch: WG1559692-2 WG1559692-3								
1,4-Dioxane	46		56		40-140	20		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		87		25-120
Phenol-d6	75		91		10-120
Nitrobenzene-d5	71		85		23-120
2-Fluorobiphenyl	77		92		30-120
2,4,6-Tribromophenol	80		100		10-136
4-Terphenyl-d14	89		110		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 Batch: WG1559701-2 WG1559701-3								
Acenaphthene	72		65		31-137	10		50
1,2,4-Trichlorobenzene	67		62		38-107	8		50
Hexachlorobenzene	80		71		40-140	12		50
Bis(2-chloroethyl)ether	66		62		40-140	6		50
2-Chloronaphthalene	78		69		40-140	12		50
1,2-Dichlorobenzene	69		62		40-140	11		50
1,3-Dichlorobenzene	68		62		40-140	9		50
1,4-Dichlorobenzene	67		62		28-104	8		50
3,3'-Dichlorobenzidine	65		55		40-140	17		50
2,4-Dinitrotoluene	79		71		40-132	11		50
2,6-Dinitrotoluene	88		81		40-140	8		50
Fluoranthene	76		71		40-140	7		50
4-Chlorophenyl phenyl ether	78		71		40-140	9		50
4-Bromophenyl phenyl ether	81		72		40-140	12		50
Bis(2-chloroisopropyl)ether	94		87		40-140	8		50
Bis(2-chloroethoxy)methane	68		62		40-117	9		50
Hexachlorobutadiene	80		72		40-140	11		50
Hexachlorocyclopentadiene	55		48		40-140	14		50
Hexachloroethane	70		68		40-140	3		50
Isophorone	67		62		40-140	8		50
Naphthalene	74		67		40-140	10		50
Nitrobenzene	75		68		40-140	10		50
NDPA/DPA	80		72		36-157	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 Batch: WG1559701-2 WG1559701-3								
n-Nitrosodi-n-propylamine	69		64		32-121	8		50
Bis(2-ethylhexyl)phthalate	96		87		40-140	10		50
Butyl benzyl phthalate	84		76		40-140	10		50
Di-n-butylphthalate	81		76		40-140	6		50
Di-n-octylphthalate	92		83		40-140	10		50
Diethyl phthalate	80		73		40-140	9		50
Dimethyl phthalate	78		70		40-140	11		50
Benzo(a)anthracene	80		73		40-140	9		50
Benzo(a)pyrene	78		70		40-140	11		50
Benzo(b)fluoranthene	85		76		40-140	11		50
Benzo(k)fluoranthene	81		72		40-140	12		50
Chrysene	76		70		40-140	8		50
Acenaphthylene	78		69		40-140	12		50
Anthracene	74		67		40-140	10		50
Benzo(ghi)perylene	78		71		40-140	9		50
Fluorene	80		72		40-140	11		50
Phenanthrene	74		68		40-140	8		50
Dibenzo(a,h)anthracene	75		68		40-140	10		50
Indeno(1,2,3-cd)pyrene	76		68		40-140	11		50
Pyrene	78		70		35-142	11		50
Biphenyl	77		68		37-127	12		50
4-Chloroaniline	64		56		40-140	13		50
2-Nitroaniline	90		81		47-134	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 Batch: WG1559701-2 WG1559701-3								
3-Nitroaniline	70		60		26-129	15		50
4-Nitroaniline	76		66		41-125	14		50
Dibenzofuran	79		70		40-140	12		50
2-Methylnaphthalene	74		65		40-140	13		50
1,2,4,5-Tetrachlorobenzene	79		70		40-117	12		50
Acetophenone	68		60		14-144	13		50
2,4,6-Trichlorophenol	84		77		30-130	9		50
p-Chloro-m-cresol	89		79		26-103	12		50
2-Chlorophenol	76		69		25-102	10		50
2,4-Dichlorophenol	80		72		30-130	11		50
2,4-Dimethylphenol	76		67		30-130	13		50
2-Nitrophenol	85		76		30-130	11		50
4-Nitrophenol	97		88		11-114	10		50
2,4-Dinitrophenol	69		65		4-130	6		50
4,6-Dinitro-o-cresol	87		79		10-130	10		50
Pentachlorophenol	70		66		17-109	6		50
Phenol	68		62		26-90	9		50
2-Methylphenol	77		71		30-130.	8		50
3-Methylphenol/4-Methylphenol	82		73		30-130	12		50
2,4,5-Trichlorophenol	91		81		30-130	12		50
Benzoic Acid	11		11		10-110	0		50
Benzyl Alcohol	75		68		40-140	10		50
Carbazole	79		72		54-128	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 Batch: WG1559701-2 WG1559701-3								
1,4-Dioxane	50		47		40-140	6		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		71		25-120
Phenol-d6	77		70		10-120
Nitrobenzene-d5	76		71		23-120
2-Fluorobiphenyl	78		71		30-120
2,4,6-Tribromophenol	85		76		10-136
4-Terphenyl-d14	73		68		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 37,41-43 Batch: WG1559757-2 WG1559757-3								
Acenaphthene	56		68		31-137	19		50
1,2,4-Trichlorobenzene	58		84		38-107	37		50
Hexachlorobenzene	53		65		40-140	20		50
Bis(2-chloroethyl)ether	66		89		40-140	30		50
2-Chloronaphthalene	62		74		40-140	18		50
1,2-Dichlorobenzene	65		74		40-140	13		50
1,3-Dichlorobenzene	64		74		40-140	14		50
1,4-Dichlorobenzene	59		72		28-104	20		50
3,3'-Dichlorobenzidine	53		64		40-140	19		50
2,4-Dinitrotoluene	60		75		40-132	22		50
2,6-Dinitrotoluene	70		83		40-140	17		50
Fluoranthene	59		78		40-140	28		50
4-Chlorophenyl phenyl ether	53		64		40-140	19		50
4-Bromophenyl phenyl ether	50		63		40-140	23		50
Bis(2-chloroisopropyl)ether	70		85		40-140	19		50
Bis(2-chloroethoxy)methane	60		92		40-117	42		50
Hexachlorobutadiene	58		63		40-140	8		50
Hexachlorocyclopentadiene	**37**	Q	49		40-140	28		50
Hexachloroethane	54		69		40-140	24		50
Isophorone	64		82		40-140	25		50
Naphthalene	60		71		40-140	17		50
Nitrobenzene	64		81		40-140	23		50
NDPA/DPA	60		69		36-157	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 37,41-43 Batch: WG1559757-2 WG1559757-3								
n-Nitrosodi-n-propylamine	62		79		32-121	24		50
Bis(2-ethylhexyl)phthalate	66		78		40-140	17		50
Butyl benzyl phthalate	64		80		40-140	22		50
Di-n-butylphthalate	66		80		40-140	19		50
Di-n-octylphthalate	65		79		40-140	19		50
Diethyl phthalate	54		68		40-140	23		50
Dimethyl phthalate	70		81		40-140	15		50
Benzo(a)anthracene	58		71		40-140	20		50
Benzo(a)pyrene	53		64		40-140	19		50
Benzo(b)fluoranthene	59		73		40-140	21		50
Benzo(k)fluoranthene	59		72		40-140	20		50
Chrysene	59		71		40-140	18		50
Acenaphthylene	65		74		40-140	13		50
Anthracene	62		75		40-140	19		50
Benzo(ghi)perylene	59		74		40-140	23		50
Fluorene	55		69		40-140	23		50
Phenanthrene	60		72		40-140	18		50
Dibenzo(a,h)anthracene	64		70		40-140	9		50
Indeno(1,2,3-cd)pyrene	64		71		40-140	10		50
Pyrene	57		76		35-142	29		50
Biphenyl	62		76		37-127	20		50
4-Chloroaniline	52		60		40-140	14		50
2-Nitroaniline	75		82		47-134	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 37,41-43 Batch: WG1559757-2 WG1559757-3								
3-Nitroaniline	55		67		26-129	20		50
4-Nitroaniline	61		78		41-125	24		50
Dibenzofuran	54		67		40-140	21		50
2-Methylnaphthalene	66		71		40-140	7		50
1,2,4,5-Tetrachlorobenzene	58		70		40-117	19		50
Acetophenone	67		87		14-144	26		50
2,4,6-Trichlorophenol	63		77		30-130	20		50
p-Chloro-m-cresol	75		83		26-103	10		50
2-Chlorophenol	67		93		25-102	33		50
2,4-Dichlorophenol	68		100		30-130	38		50
2,4-Dimethylphenol	66		87		30-130	27		50
2-Nitrophenol	64		82		30-130	25		50
4-Nitrophenol	72		91		11-114	23		50
2,4-Dinitrophenol	17		23		4-130	30		50
4,6-Dinitro-o-cresol	26		37		10-130	35		50
Pentachlorophenol	60		76		17-109	24		50
Phenol	79		**105**	Q	26-90	28		50
2-Methylphenol	65		84		30-130.	26		50
3-Methylphenol/4-Methylphenol	65		86		30-130	28		50
2,4,5-Trichlorophenol	70		75		30-130	7		50
Benzoic Acid	**2**	Q	**2**	Q	10-110	12		50
Benzyl Alcohol	70		86		40-140	21		50
Carbazole	64		76		54-128	17		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 37,41-43 Batch: WG1559757-2 WG1559757-3								
1,4-Dioxane	41		48		40-140	16		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		99		25-120
Phenol-d6	77		104		10-120
Nitrobenzene-d5	61		79		23-120
2-Fluorobiphenyl	61		71		30-120
2,4,6-Tribromophenol	53		67		10-136
4-Terphenyl-d14	53		75		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 38 Batch: WG1560544-2 WG1560544-3								
Acenaphthene	78		69		37-111	12		30
1,2,4-Trichlorobenzene	71		66		39-98	7		30
Hexachlorobenzene	59		55		40-140	7		30
Bis(2-chloroethyl)ether	80		74		40-140	8		30
2-Chloronaphthalene	74		70		40-140	6		30
1,2-Dichlorobenzene	72		69		40-140	4		30
1,3-Dichlorobenzene	73		68		40-140	7		30
1,4-Dichlorobenzene	73		67		36-97	9		30
3,3'-Dichlorobenzidine	68		60		40-140	13		30
2,4-Dinitrotoluene	76		67		48-143	13		30
2,6-Dinitrotoluene	82		77		40-140	6		30
Fluoranthene	78		70		40-140	11		30
4-Chlorophenyl phenyl ether	76		67		40-140	13		30
4-Bromophenyl phenyl ether	70		66		40-140	6		30
Bis(2-chloroisopropyl)ether	128		122		40-140	5		30
Bis(2-chloroethoxy)methane	82		76		40-140	8		30
Hexachlorobutadiene	70		63		40-140	11		30
Hexachlorocyclopentadiene	66		62		40-140	6		30
Hexachloroethane	74		67		40-140	10		30
Isophorone	81		77		40-140	5		30
Naphthalene	75		69		40-140	8		30
Nitrobenzene	104		97		40-140	7		30
NDPA/DPA	80		72		40-140	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 38 Batch: WG1560544-2 WG1560544-3								
n-Nitrosodi-n-propylamine	88		83		29-132	6		30
Bis(2-ethylhexyl)phthalate	115		91		40-140	23		30
Butyl benzyl phthalate	93		81		40-140	14		30
Di-n-butylphthalate	82		74		40-140	10		30
Di-n-octylphthalate	121		94		40-140	25		30
Diethyl phthalate	89		78		40-140	13		30
Dimethyl phthalate	71		67		40-140	6		30
Benzo(a)anthracene	86		77		40-140	11		30
Benzo(a)pyrene	95		80		40-140	17		30
Benzo(b)fluoranthene	104		86		40-140	19		30
Benzo(k)fluoranthene	80		66		40-140	19		30
Chrysene	82		75		40-140	9		30
Acenaphthylene	76		73		45-123	4		30
Anthracene	82		72		40-140	13		30
Benzo(ghi)perylene	90		83		40-140	8		30
Fluorene	80		71		40-140	12		30
Phenanthrene	77		72		40-140	7		30
Dibenzo(a,h)anthracene	85		76		40-140	11		30
Indeno(1,2,3-cd)pyrene	80		77		40-140	4		30
Pyrene	76		67		26-127	13		30
Biphenyl	77		72		40-140	7		30
4-Chloroaniline	46		41		40-140	11		30
2-Nitroaniline	76		72		52-143	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 38 Batch: WG1560544-2 WG1560544-3								
3-Nitroaniline	74		63		25-145	16		30
4-Nitroaniline	80		69		51-143	15		30
Dibenzofuran	74		66		40-140	11		30
2-Methylnaphthalene	85		80		40-140	6		30
1,2,4,5-Tetrachlorobenzene	70		65		2-134	7		30
Acetophenone	84		80		39-129	5		30
2,4,6-Trichlorophenol	76		73		30-130	4		30
p-Chloro-m-cresol	82		75		23-97	9		30
2-Chlorophenol	78		73		27-123	7		30
2,4-Dichlorophenol	77		73		30-130	5		30
2,4-Dimethylphenol	78		68		30-130	14		30
2-Nitrophenol	75		72		30-130	4		30
4-Nitrophenol	**86**	Q	74		10-80	15		30
2,4-Dinitrophenol	66		63		20-130	5		30
4,6-Dinitro-o-cresol	83		79		20-164	5		30
Pentachlorophenol	68		62		9-103	9		30
Phenol	62		57		12-110	8		30
2-Methylphenol	74		69		30-130	7		30
3-Methylphenol/4-Methylphenol	76		70		30-130	8		30
2,4,5-Trichlorophenol	78		73		30-130	7		30
Benzoic Acid	76		88		10-164	15		30
Benzyl Alcohol	72		66		26-116	9		30
Carbazole	81		74		55-144	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 38 Batch: WG1560544-2 WG1560544-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		62		21-120
Phenol-d6	61		54		10-120
Nitrobenzene-d5	78		74		23-120
2-Fluorobiphenyl	69		65		15-120
2,4,6-Tribromophenol	60		57		10-120
4-Terphenyl-d14	67		61		41-149

PETROLEUM HYDROCARBONS

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01
Client ID: B-1 (4.5-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/17/21 16:09
Analyst: MEO
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	45000		ug/kg	40000	2200	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	64		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01
Client ID: B-1 (4.5-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 13:35
Analyst: BAD
Percent Solids: 80%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	2200	J	ug/kg	3500	68.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	83		70-130
4-Bromofluorobenzene	81		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02
Client ID: B-1 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/17/21 15:20
Analyst: MEO
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	120000		ug/kg	36000	2000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	78		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02
Client ID: B-1 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 15:10
Analyst: BAD
Percent Solids: 87%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	34000		ug/kg	2800	54.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	103		70-130
4-Bromofluorobenzene	91		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03 D
Client ID: B-2 (2.5-3.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:10
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 16:13
Analyst: BAD
Percent Solids: 83%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	6200000		ug/kg	860000	16000	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	99		70-130
4-Bromofluorobenzene	96		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03 D
Client ID: B-2 (2.5-3.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:10
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 16:23
Analyst: JB
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	1400000		ug/kg	390000	22000	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	63		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04 D
Client ID: B-2 (5-6)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 15:41
Analyst: BAD
Percent Solids: 81%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1700000		ug/kg	280000	5500	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	97		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04 D
Client ID: B-2 (5-6)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 16:58
Analyst: JB
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	900000		ug/kg	200000	11000	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	78		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05
Client ID: B-3 (3-4)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 17:16
Analyst: BAD
Percent Solids: 84%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	33000		ug/kg	4100	79.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	91		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05 D
Client ID: B-3 (3-4)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 17:33
Analyst: JB
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	570000		ug/kg	190000	11000	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	66		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06
Client ID: B-3 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/17/21 19:28
Analyst: MEO
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	7500	J	ug/kg	40000	2200	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	77		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06 D
Client ID: B-3 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 18:18
Analyst: BAD
Percent Solids: 79%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	710000		ug/kg	67000	1300	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	108		70-130
4-Bromofluorobenzene	104		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08
Client ID: B-5 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:34
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/17/21 14:30
Analyst: MEO
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	12000	J	ug/kg	34000	1900	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	58		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08
Client ID: B-5 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:34
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 17:47
Analyst: BAD
Percent Solids: 92%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	11000		ug/kg	3100	59.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	92		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09
Client ID: B-5 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:42
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/17/21 14:55
Analyst: MEO
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	3300	J	ug/kg	39000	2200	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	47		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09
Client ID: B-5 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:42
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 19:21
Analyst: BAD
Percent Solids: 83%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	2000	J	ug/kg	3300	64.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	99		70-130
4-Bromofluorobenzene	97		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11
Client ID: B-6 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/17/21 15:44
Analyst: MEO
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	6800	J	ug/kg	42000	2300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	52		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11
Client ID: B-6 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 19:52
Analyst: BAD
Percent Solids: 78%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1600	J	ug/kg	3100	60.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	99		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12
Client ID: B-7 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:28
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/17/21 16:09
Analyst: MEO
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	190000		ug/kg	37000	2000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	64		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12
Client ID: B-7 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:28
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 22:27
Analyst: BAD
Percent Solids: 88%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	5600		ug/kg	3300	64.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	102		70-130
4-Bromofluorobenzene	100		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13
Client ID: B-8 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/17/21 16:34
Analyst: MEO
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	150000		ug/kg	39000	2200	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	61		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13
Client ID: B-8 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 22:58
Analyst: BAD
Percent Solids: 81%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	4500	J	ug/kg	4700	91.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	98		70-130
4-Bromofluorobenzene	97		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14
Client ID: B-8 (7-8)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/17/21 16:59
Analyst: MEO
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	160000		ug/kg	130000	7400	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14
Client ID: B-8 (7-8)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 23:29
Analyst: BAD
Percent Solids: 72%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	3600	J	ug/kg	4600	90.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	100		70-130
4-Bromofluorobenzene	96		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15
Client ID: B-7 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:35
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 09:09
Analyst: MEO
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	110000		ug/kg	40000	2200	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	111		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15
Client ID: B-7 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:35
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 00:00
Analyst: BAD
Percent Solids: 82%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	2600	J	ug/kg	3800	73.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	96		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16
Client ID: B-11 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 09:34
Analyst: MEO
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	100000		ug/kg	38000	2100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	116		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16
Client ID: B-11 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 00:31
Analyst: BAD
Percent Solids: 86%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	2000	J	ug/kg	3500	68.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	98		70-130
4-Bromofluorobenzene	97		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17
Client ID: B-11 (6-7)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 07:55
Analyst: MEO
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	2300	J	ug/kg	41000	2300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	108		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17
Client ID: B-11 (6-7)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 01:02
Analyst: BAD
Percent Solids: 81%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1300	J	ug/kg	2800	54.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	100		70-130
4-Bromofluorobenzene	101		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19
Client ID: B-13 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 14:05
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 08:20
Analyst: MEO
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	2500	J	ug/kg	40000	2200	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	108		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19
Client ID: B-13 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 14:05
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 01:33
Analyst: BAD
Percent Solids: 82%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1400	J	ug/kg	3200	63.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	99		70-130
4-Bromofluorobenzene	99		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21
Client ID: B-13 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 08:45
Analyst: MEO
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	6700	J	ug/kg	42000	2300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	89		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21
Client ID: B-13 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 02:04
Analyst: BAD
Percent Solids: 76%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	2200	J	ug/kg	3900	75.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	99		70-130
4-Bromofluorobenzene	98		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22
Client ID: B-14 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 10:49
Analyst: MEO
Percent Solids: 53%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	170000		ug/kg	61000	3400	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22
Client ID: B-14 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 02:35
Analyst: BAD
Percent Solids: 53%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	4800	J	ug/kg	5800	110	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	98		70-130
4-Bromofluorobenzene	98		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25
Client ID: B-15 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 12:28
Analyst: MEO
Percent Solids: 65%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	70000		ug/kg	48000	2700	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	46		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25
Client ID: B-15 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 03:06
Analyst: BAD
Percent Solids: 65%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	2600	J	ug/kg	5000	96.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	98		70-130
4-Bromofluorobenzene	98		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26
Client ID: B-16 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 12:53
Analyst: MEO
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	5200	J	ug/kg	35000	1900	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26
Client ID: B-16 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 03:37
Analyst: BAD
Percent Solids: 93%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1300	J	ug/kg	2800	55.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	100		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27
Client ID: B-16 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 13:18
Analyst: MEO
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	4100	J	ug/kg	37000	2000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27
Client ID: B-16 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 04:07
Analyst: BAD
Percent Solids: 87%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1100	J	ug/kg	2500	48.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	97		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-28
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/12/21 08:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 10/19/21 09:55
Analyst: SC

Extraction Method: EPA 3510C
Extraction Date: 10/18/21 08:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	ND		ug/l	500	71.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	68		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-28
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/12/21 08:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 13:21
Analyst: MKS

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	18	J	ug/l	50	3.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	114		70-130
4-Bromofluorobenzene	112		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30
Client ID: B-10 (0.5-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 09:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 14:08
Analyst: MEO
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	160000		ug/kg	34000	1900	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	86		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30
Client ID: B-10 (0.5-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 09:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 15:54
Analyst: MKS
Percent Solids: 93%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	20000		ug/kg	3900	75.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	105		70-130
4-Bromofluorobenzene	91		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32
Client ID: B-22 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 15:44
Analyst: MEO
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	230000		ug/kg	36000	2000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	112		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32
Client ID: B-22 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 17:26
Analyst: MKS
Percent Solids: 90%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	5400		ug/kg	3800	74.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	117		70-130
4-Bromofluorobenzene	107		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33
Client ID: B-22 (14-15)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 13:43
Analyst: MEO
Percent Solids: 67%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	25000	J	ug/kg	49000	2700	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33
Client ID: B-22 (14-15)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 17:57
Analyst: MKS
Percent Solids: 67%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	2000	J	ug/kg	3000	59.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	107		70-130
4-Bromofluorobenzene	103		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35
Client ID: B-23 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 07:06
Analyst: MEO
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	6300	J	ug/kg	37000	2000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35
Client ID: B-23 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 18:27
Analyst: MKS
Percent Solids: 85%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1400	J	ug/kg	3000	57.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	105		70-130
4-Bromofluorobenzene	100		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36
Client ID: B-24 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 18:58
Analyst: MKS
Percent Solids: 88%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	3200		ug/kg	3200	62.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	114		70-130
4-Bromofluorobenzene	106		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36 D
Client ID: B-24 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 14:02
Analyst: JB
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	1400000		ug/kg	380000	21000	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	135		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37
Client ID: B-24 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 18:39
Analyst: MEO
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 01:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	21000	J	ug/kg	37000	2000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	94		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37
Client ID: B-24 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 19:28
Analyst: MKS
Percent Solids: 85%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	2800	J	ug/kg	5100	99.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	111		70-130
4-Bromofluorobenzene	99		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-38
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/13/21 08:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 10/19/21 10:20
Analyst: SC

Extraction Method: EPA 3510C
Extraction Date: 10/18/21 08:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	ND		ug/l	500	71.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	98		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-38
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/13/21 08:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 13:52
Analyst: MKS

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	18	J	ug/l	50	3.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	115		70-130
4-Bromofluorobenzene	114		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41
Client ID: B-17 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/26/21 19:06
Analyst: BAD
Percent Solids: 89%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	61000		ug/kg	2900	56.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	100		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41 D
Client ID: B-17 (8-9)
Sample Location: BRONX, NY

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 15:48
Analyst: JB
Percent Solids: 89%

Date Collected: 10/14/21 10:00
Date Received: 10/14/21
Field Prep: Not Specified

Extraction Method: EPA 3546
Extraction Date: 10/18/21 01:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	1800000		ug/kg	360000	20000	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	100		40-140

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42
Client ID: B-18 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 19:28
Analyst: MEO
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 01:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	22000	J	ug/kg	35000	1900	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42
Client ID: B-18 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/26/21 18:04
Analyst: BAD
Percent Solids: 94%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1500	J	ug/kg	3100	60.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	95		70-130

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43
Client ID: B-20 (11-12)
Sample Location: BRONX, NY

Date Collected: 10/14/21 11:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 19:53
Analyst: MEO
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 01:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	12000	J	ug/kg	40000	2200	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43
Client ID: B-20 (11-12)
Sample Location: BRONX, NY

Date Collected: 10/14/21 11:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 10/26/21 18:35
Analyst: BAD
Percent Solids: 80%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1600	J	ug/kg	3200	63.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	95		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 10/17/21 14:55
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 10/16/21 20:34

Parameter	Result	Qualifier	Units	RL	MDL
Diesel Range Organics - Westborough Lab for sample(s): 01-06,08-09,11-14 Batch: WG1559572-1					
DRO (C10-C28)	ND		ug/kg	32000	1800

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 06:41
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 10/17/21 17:32

Parameter	Result	Qualifier	Units	RL	MDL
Diesel Range Organics - Westborough Lab for sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 Batch: WG1559724-1					
DRO (C10-C28)	ND		ug/kg	32000	1800

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 10/18/21 17:24
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 10/18/21 01:14

Parameter	Result	Qualifier	Units	RL	MDL
Diesel Range Organics - Westborough Lab for sample(s): 37,41-43 Batch: WG1559761-1					
DRO (C10-C28)	5600	J	ug/kg	32000	1800

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	97		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 10/19/21 07:40
Analyst: SC

Extraction Method: EPA 3510C
Extraction Date: 10/18/21 08:45

Parameter	Result	Qualifier	Units	RL	MDL
Diesel Range Organics - Westborough Lab for sample(s): 28,38 Batch: WG1559856-1					
DRO (C10-C28)	78	J	ug/l	500	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	75		40-140

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 11:06
Analyst: BAD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01-06,08-09,11 Batch: WG1562345-4					
Gasoline Range Organics	1600	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	90		70-130
4-Bromofluorobenzene	88		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 10/22/21 21:56
Analyst: BAD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 12-17,19,21-22,25-27 Batch: WG1562349-4					
Gasoline Range Organics	1200	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	100		70-130
4-Bromofluorobenzene	102		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 12:50
Analyst: BAD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 28,38 Batch: WG1562782-4					
Gasoline Range Organics	28	J	ug/l	50	3.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	73		70-130
4-Bromofluorobenzene	77		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 10/23/21 12:50
Analyst: BAD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 30,32-33,35-37 Batch: WG1562783-4					
Gasoline Range Organics	1400	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	73		70-130
4-Bromofluorobenzene	77		70-130

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 10/26/21 11:24
Analyst: BAD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 41-43 Batch: WG1563841-4					
Gasoline Range Organics	1600	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	90		70-130
4-Bromofluorobenzene	89		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab	Associated sample(s): 01-06,08-09,11-14		Batch: WG1559572-2					
DRO (C10-C28)	79		-		60-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	69				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab	Associated sample(s): 15-17,19,21-22,25-27,30,32-33,35-36				Batch: WG1559724-2			
DRO (C10-C28)	115		-		60-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	118				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab	Associated sample(s): 37,41-43		Batch: WG1559761-2					
DRO (C10-C28)	98		-		60-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	80				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab	Associated sample(s): 28,38		Batch: WG1559856-2					
DRO (C10-C28)	105		-		60-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	89				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 01-06,08-09,11		Batch: WG1562345-2 WG1562345-3					
Gasoline Range Organics	85		99		80-120	15		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	93		107		70-130
4-Bromofluorobenzene	94		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s):		12-17,19,21-22,25-27	Batch:	WG1562349-2	WG1562349-3		
Gasoline Range Organics	103		104		80-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	111		111		70-130
4-Bromofluorobenzene	103		106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 28,38		Batch: WG1562782-2		WG1562782-3			
Gasoline Range Organics	99		113		80-120	13		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	105		119		70-130
4-Bromofluorobenzene	99		114		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 30,32-33,35-37		Batch: WG1562783-2 WG1562783-3					
Gasoline Range Organics	99		113		80-120	13		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	105		119		70-130
4-Bromofluorobenzene	99		114		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 41-43		Batch: WG1563841-2 WG1563841-3					
Gasoline Range Organics	95		96		80-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	105		104		70-130
4-Bromofluorobenzene	96		97		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01-06,08-09,11 QC Batch ID: WG1562345-6 QC Sample: L2156166-01 Client ID: B-1 (4.5-5)												
Gasoline Range Organics	2200J	28200	25000	89		-	-		80-120	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89				70-130
4-Bromofluorobenzene	84				70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab 16 (8-9)	Associated sample(s): 12-17,19,21-22,25-27			QC Batch ID: WG1562349-6					QC Sample: L2156166-27			Client ID: B-
Gasoline Range Organics	1100J	20000	20000	99		-	-		80-120	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	99				70-130
4-Bromofluorobenzene	94				70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab (0.5-2)	Associated sample(s): 30,32-33,35-37					QC Batch ID: WG1562783-6			QC Sample: L2156166-30			Client ID: B-10
Gasoline Range Organics	20000	31000	51000	99		-	-		80-120	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	99				70-130
4-Bromofluorobenzene	84				70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab Associated sample(s): 01-06,08-09,11-14 QC Batch ID: WG1559572-3 QC Sample: L2156166-02 Client ID: B-1 (0.5-1)						
DRO (C10-C28)	120000	160000	ug/kg	**29**	Q	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	78		78		40-140

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab Associated sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 QC Batch ID: WG1559724-3 QC Sample: L2156166-35 Client ID: B-23 (9-10)						
DRO (C10-C28)	6300J	4300J	ug/kg	NC		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96		122		40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01-06,08-09,11 QC Batch ID: WG1562345-5 QC Sample: L2156166-01 Client ID: B-1 (4.5-5)						
Gasoline Range Organics	2200J	2200J	ug/kg	NC		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	83		92		70-130
4-Bromofluorobenzene	81		92		70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 12-17,19,21-22,25-27 QC Batch ID: WG1562349-5 QC Sample: L2156166-27 Client ID: B-16 (8-9)						
Gasoline Range Organics	1100J	1300J	ug/kg	NC		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		96		70-130
4-Bromofluorobenzene	97		95		70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 30,32-33,35-37 QC Batch ID: WG1562783-5 QC Sample: L2156166-30 Client ID: B-10 (0.5-2)						
Gasoline Range Organics	20000	23000	ug/kg	12		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	105		113		70-130
4-Bromofluorobenzene	91		97		70-130

PCBS

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01
Client ID: B-1 (4.5-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 12:28
Analyst: CW
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.8	3.62	1	A
Aroclor 1221	ND		ug/kg	40.8	4.08	1	A
Aroclor 1232	ND		ug/kg	40.8	8.64	1	A
Aroclor 1242	ND		ug/kg	40.8	5.50	1	A
Aroclor 1248	ND		ug/kg	40.8	6.12	1	A
Aroclor 1254	ND		ug/kg	40.8	4.46	1	A
Aroclor 1260	ND		ug/kg	40.8	7.54	1	A
Aroclor 1262	ND		ug/kg	40.8	5.18	1	A
Aroclor 1268	ND		ug/kg	40.8	4.22	1	A
PCBs, Total	ND		ug/kg	40.8	3.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02
Client ID: B-1 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 12:36
Analyst: CW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.1	3.30	1	A
Aroclor 1221	ND		ug/kg	37.1	3.72	1	A
Aroclor 1232	ND		ug/kg	37.1	7.87	1	A
Aroclor 1242	ND		ug/kg	37.1	5.01	1	A
Aroclor 1248	ND		ug/kg	37.1	5.57	1	A
Aroclor 1254	159		ug/kg	37.1	4.06	1	A
Aroclor 1260	ND		ug/kg	37.1	6.86	1	A
Aroclor 1262	ND		ug/kg	37.1	4.72	1	A
Aroclor 1268	ND		ug/kg	37.1	3.85	1	A
PCBs, Total	159		ug/kg	37.1	3.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03
Client ID: B-2 (2.5-3.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:10
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 12:44
Analyst: CW
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.2	3.40	1	A
Aroclor 1221	ND		ug/kg	38.2	3.83	1	A
Aroclor 1232	ND		ug/kg	38.2	8.11	1	A
Aroclor 1242	ND		ug/kg	38.2	5.16	1	A
Aroclor 1248	ND		ug/kg	38.2	5.74	1	A
Aroclor 1254	ND		ug/kg	38.2	4.18	1	A
Aroclor 1260	ND		ug/kg	38.2	7.07	1	A
Aroclor 1262	ND		ug/kg	38.2	4.86	1	A
Aroclor 1268	ND		ug/kg	38.2	3.96	1	A
PCBs, Total	ND		ug/kg	38.2	3.40	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04
Client ID: B-2 (5-6)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 12:12
Analyst: CW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.7	3.44	1	A
Aroclor 1221	ND		ug/kg	38.7	3.88	1	A
Aroclor 1232	ND		ug/kg	38.7	8.21	1	A
Aroclor 1242	ND		ug/kg	38.7	5.22	1	A
Aroclor 1248	ND		ug/kg	38.7	5.81	1	A
Aroclor 1254	11.3	J	ug/kg	38.7	4.24	1	A
Aroclor 1260	ND		ug/kg	38.7	7.16	1	A
Aroclor 1262	ND		ug/kg	38.7	4.92	1	A
Aroclor 1268	ND		ug/kg	38.7	4.01	1	A
PCBs, Total	11.3	J	ug/kg	38.7	3.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05
Client ID: B-3 (3-4)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 12:04
Analyst: CW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.6	3.51	1	A
Aroclor 1221	ND		ug/kg	39.6	3.96	1	A
Aroclor 1232	ND		ug/kg	39.6	8.39	1	A
Aroclor 1242	ND		ug/kg	39.6	5.33	1	A
Aroclor 1248	ND		ug/kg	39.6	5.94	1	A
Aroclor 1254	73.6		ug/kg	39.6	4.33	1	A
Aroclor 1260	37.4	J	ug/kg	39.6	7.31	1	A
Aroclor 1262	ND		ug/kg	39.6	5.03	1	A
Aroclor 1268	20.8	J	ug/kg	39.6	4.10	1	A
PCBs, Total	132	J	ug/kg	39.6	3.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06
Client ID: B-3 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 11:32
Analyst: CW
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.1	3.56	1	A
Aroclor 1221	ND		ug/kg	40.1	4.02	1	A
Aroclor 1232	ND		ug/kg	40.1	8.51	1	A
Aroclor 1242	ND		ug/kg	40.1	5.41	1	A
Aroclor 1248	ND		ug/kg	40.1	6.02	1	A
Aroclor 1254	ND		ug/kg	40.1	4.39	1	A
Aroclor 1260	ND		ug/kg	40.1	7.42	1	A
Aroclor 1262	ND		ug/kg	40.1	5.10	1	A
Aroclor 1268	ND		ug/kg	40.1	4.16	1	A
PCBs, Total	ND		ug/kg	40.1	3.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08
Client ID: B-5 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:34
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 11:08
Analyst: CW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	3.15	1	A
Aroclor 1221	ND		ug/kg	35.4	3.55	1	A
Aroclor 1232	ND		ug/kg	35.4	7.52	1	A
Aroclor 1242	ND		ug/kg	35.4	4.78	1	A
Aroclor 1248	ND		ug/kg	35.4	5.32	1	A
Aroclor 1254	ND		ug/kg	35.4	3.88	1	A
Aroclor 1260	ND		ug/kg	35.4	6.55	1	A
Aroclor 1262	ND		ug/kg	35.4	4.50	1	A
Aroclor 1268	ND		ug/kg	35.4	3.67	1	A
PCBs, Total	ND		ug/kg	35.4	3.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09
Client ID: B-5 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:42
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 11:24
Analyst: CW
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.1	3.38	1	A
Aroclor 1221	ND		ug/kg	38.1	3.82	1	A
Aroclor 1232	ND		ug/kg	38.1	8.07	1	A
Aroclor 1242	ND		ug/kg	38.1	5.13	1	A
Aroclor 1248	ND		ug/kg	38.1	5.71	1	A
Aroclor 1254	ND		ug/kg	38.1	4.16	1	A
Aroclor 1260	ND		ug/kg	38.1	7.04	1	A
Aroclor 1262	ND		ug/kg	38.1	4.84	1	A
Aroclor 1268	ND		ug/kg	38.1	3.94	1	A
PCBs, Total	ND		ug/kg	38.1	3.38	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11
Client ID: B-6 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 11:40
Analyst: CW
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:58
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.1	3.74	1	A
Aroclor 1221	ND		ug/kg	42.1	4.22	1	A
Aroclor 1232	ND		ug/kg	42.1	8.93	1	A
Aroclor 1242	ND		ug/kg	42.1	5.68	1	A
Aroclor 1248	ND		ug/kg	42.1	6.32	1	A
Aroclor 1254	ND		ug/kg	42.1	4.61	1	A
Aroclor 1260	ND		ug/kg	42.1	7.78	1	A
Aroclor 1262	ND		ug/kg	42.1	5.35	1	A
Aroclor 1268	ND		ug/kg	42.1	4.36	1	A
PCBs, Total	ND		ug/kg	42.1	3.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12
Client ID: B-7 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:28
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 11:48
Analyst: CW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:58
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	3.23	1	A
Aroclor 1221	ND		ug/kg	36.4	3.64	1	A
Aroclor 1232	ND		ug/kg	36.4	7.71	1	A
Aroclor 1242	ND		ug/kg	36.4	4.90	1	A
Aroclor 1248	ND		ug/kg	36.4	5.45	1	A
Aroclor 1254	122		ug/kg	36.4	3.98	1	A
Aroclor 1260	138		ug/kg	36.4	6.72	1	B
Aroclor 1262	ND		ug/kg	36.4	4.62	1	A
Aroclor 1268	ND		ug/kg	36.4	3.77	1	A
PCBs, Total	260		ug/kg	36.4	3.23	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13
Client ID: B-8 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 11:56
Analyst: CW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:58
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	3.64	1	A
Aroclor 1221	ND		ug/kg	41.0	4.11	1	A
Aroclor 1232	ND		ug/kg	41.0	8.70	1	A
Aroclor 1242	ND		ug/kg	41.0	5.53	1	A
Aroclor 1248	ND		ug/kg	41.0	6.15	1	A
Aroclor 1254	ND		ug/kg	41.0	4.49	1	A
Aroclor 1260	ND		ug/kg	41.0	7.58	1	A
Aroclor 1262	ND		ug/kg	41.0	5.21	1	A
Aroclor 1268	ND		ug/kg	41.0	4.25	1	A
PCBs, Total	ND		ug/kg	41.0	3.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14
Client ID: B-8 (7-8)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 11:16
Analyst: CW
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:58
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.4	3.94	1	A
Aroclor 1221	ND		ug/kg	44.4	4.45	1	A
Aroclor 1232	ND		ug/kg	44.4	9.41	1	A
Aroclor 1242	ND		ug/kg	44.4	5.98	1	A
Aroclor 1248	ND		ug/kg	44.4	6.66	1	A
Aroclor 1254	ND		ug/kg	44.4	4.85	1	A
Aroclor 1260	ND		ug/kg	44.4	8.20	1	A
Aroclor 1262	ND		ug/kg	44.4	5.64	1	A
Aroclor 1268	ND		ug/kg	44.4	4.60	1	A
PCBs, Total	ND		ug/kg	44.4	3.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15
Client ID: B-7 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:35
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 19:32
Analyst: CW
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.3	3.58	1	A
Aroclor 1221	ND		ug/kg	40.3	4.04	1	A
Aroclor 1232	ND		ug/kg	40.3	8.54	1	A
Aroclor 1242	ND		ug/kg	40.3	5.43	1	A
Aroclor 1248	ND		ug/kg	40.3	6.04	1	A
Aroclor 1254	ND		ug/kg	40.3	4.41	1	A
Aroclor 1260	ND		ug/kg	40.3	7.44	1	A
Aroclor 1262	ND		ug/kg	40.3	5.12	1	A
Aroclor 1268	ND		ug/kg	40.3	4.17	1	A
PCBs, Total	ND		ug/kg	40.3	3.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	31		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	30		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16
Client ID: B-11 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 14:32
Analyst: JM
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	3.36	1	A
Aroclor 1221	ND		ug/kg	37.8	3.79	1	A
Aroclor 1232	ND		ug/kg	37.8	8.02	1	A
Aroclor 1242	ND		ug/kg	37.8	5.10	1	A
Aroclor 1248	ND		ug/kg	37.8	5.68	1	A
Aroclor 1254	ND		ug/kg	37.8	4.14	1	A
Aroclor 1260	ND		ug/kg	37.8	6.99	1	B
Aroclor 1262	ND		ug/kg	37.8	4.81	1	A
Aroclor 1268	ND		ug/kg	37.8	3.92	1	A
PCBs, Total	ND		ug/kg	37.8	3.36	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	39		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17
Client ID: B-11 (6-7)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 14:40
Analyst: JM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.8	3.53	1	A
Aroclor 1221	ND		ug/kg	39.8	3.98	1	A
Aroclor 1232	ND		ug/kg	39.8	8.43	1	A
Aroclor 1242	ND		ug/kg	39.8	5.36	1	A
Aroclor 1248	ND		ug/kg	39.8	5.97	1	A
Aroclor 1254	ND		ug/kg	39.8	4.35	1	A
Aroclor 1260	ND		ug/kg	39.8	7.35	1	A
Aroclor 1262	ND		ug/kg	39.8	5.05	1	A
Aroclor 1268	ND		ug/kg	39.8	4.12	1	A
PCBs, Total	ND		ug/kg	39.8	3.53	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19
Client ID: B-13 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 14:05
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 14:48
Analyst: JM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.0	3.55	1	A
Aroclor 1221	ND		ug/kg	40.0	4.01	1	A
Aroclor 1232	ND		ug/kg	40.0	8.48	1	A
Aroclor 1242	ND		ug/kg	40.0	5.39	1	A
Aroclor 1248	ND		ug/kg	40.0	6.00	1	A
Aroclor 1254	ND		ug/kg	40.0	4.37	1	A
Aroclor 1260	ND		ug/kg	40.0	7.39	1	A
Aroclor 1262	ND		ug/kg	40.0	5.08	1	A
Aroclor 1268	ND		ug/kg	40.0	4.14	1	A
PCBs, Total	ND		ug/kg	40.0	3.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21
Client ID: B-13 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 14:56
Analyst: JM
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.4	3.85	1	A
Aroclor 1221	ND		ug/kg	43.4	4.35	1	A
Aroclor 1232	ND		ug/kg	43.4	9.20	1	A
Aroclor 1242	ND		ug/kg	43.4	5.85	1	A
Aroclor 1248	ND		ug/kg	43.4	6.51	1	A
Aroclor 1254	ND		ug/kg	43.4	4.75	1	A
Aroclor 1260	ND		ug/kg	43.4	8.02	1	A
Aroclor 1262	ND		ug/kg	43.4	5.51	1	A
Aroclor 1268	ND		ug/kg	43.4	4.50	1	A
PCBs, Total	ND		ug/kg	43.4	3.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22
Client ID: B-14 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 15:04
Analyst: JM
Percent Solids: 53%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	62.4	5.54	1	A
Aroclor 1221	ND		ug/kg	62.4	6.25	1	A
Aroclor 1232	ND		ug/kg	62.4	13.2	1	A
Aroclor 1242	ND		ug/kg	62.4	8.40	1	A
Aroclor 1248	ND		ug/kg	62.4	9.35	1	A
Aroclor 1254	ND		ug/kg	62.4	6.82	1	A
Aroclor 1260	ND		ug/kg	62.4	11.5	1	A
Aroclor 1262	ND		ug/kg	62.4	7.92	1	A
Aroclor 1268	ND		ug/kg	62.4	6.46	1	A
PCBs, Total	ND		ug/kg	62.4	5.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25
Client ID: B-15 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 15:12
Analyst: JM
Percent Solids: 65%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	49.8	4.42	1	A
Aroclor 1221	ND		ug/kg	49.8	4.99	1	A
Aroclor 1232	ND		ug/kg	49.8	10.6	1	A
Aroclor 1242	ND		ug/kg	49.8	6.71	1	A
Aroclor 1248	ND		ug/kg	49.8	7.47	1	A
Aroclor 1254	ND		ug/kg	49.8	5.44	1	A
Aroclor 1260	ND		ug/kg	49.8	9.20	1	A
Aroclor 1262	ND		ug/kg	49.8	6.32	1	A
Aroclor 1268	ND		ug/kg	49.8	5.16	1	A
PCBs, Total	ND		ug/kg	49.8	4.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26
Client ID: B-16 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 15:20
Analyst: JM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	3.13	1	A
Aroclor 1221	ND		ug/kg	35.2	3.53	1	A
Aroclor 1232	ND		ug/kg	35.2	7.47	1	A
Aroclor 1242	ND		ug/kg	35.2	4.75	1	A
Aroclor 1248	ND		ug/kg	35.2	5.28	1	A
Aroclor 1254	ND		ug/kg	35.2	3.85	1	A
Aroclor 1260	ND		ug/kg	35.2	6.51	1	A
Aroclor 1262	ND		ug/kg	35.2	4.47	1	A
Aroclor 1268	ND		ug/kg	35.2	3.65	1	A
PCBs, Total	ND		ug/kg	35.2	3.13	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27
Client ID: B-16 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 15:28
Analyst: JM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:18
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	3.26	1	A
Aroclor 1221	ND		ug/kg	36.8	3.68	1	A
Aroclor 1232	ND		ug/kg	36.8	7.79	1	A
Aroclor 1242	ND		ug/kg	36.8	4.95	1	A
Aroclor 1248	ND		ug/kg	36.8	5.51	1	A
Aroclor 1254	ND		ug/kg	36.8	4.02	1	A
Aroclor 1260	ND		ug/kg	36.8	6.79	1	A
Aroclor 1262	ND		ug/kg	36.8	4.67	1	A
Aroclor 1268	ND		ug/kg	36.8	3.81	1	A
PCBs, Total	ND		ug/kg	36.8	3.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-28
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/12/21 08:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/27/21 02:38
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 10/26/21 04:15
Cleanup Method: EPA 3665A
Cleanup Date: 10/26/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/26/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	36		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30 D
Client ID: B-10 (0.5-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 09:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/21 04:59
Analyst: CW
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:18
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	703	62.4	20	A
Aroclor 1221	ND		ug/kg	703	70.4	20	A
Aroclor 1232	ND		ug/kg	703	149.	20	A
Aroclor 1242	ND		ug/kg	703	94.8	20	A
Aroclor 1248	ND		ug/kg	703	105.	20	A
Aroclor 1254	11600		ug/kg	703	76.9	20	A
Aroclor 1260	ND		ug/kg	703	130.	20	A
Aroclor 1262	ND		ug/kg	703	89.3	20	A
Aroclor 1268	ND		ug/kg	703	72.8	20	A
PCBs, Total	11600		ug/kg	703	62.4	20	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32
Client ID: B-22 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 15:44
Analyst: JM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:18
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	3.24	1	A
Aroclor 1221	ND		ug/kg	36.5	3.66	1	A
Aroclor 1232	ND		ug/kg	36.5	7.73	1	A
Aroclor 1242	ND		ug/kg	36.5	4.92	1	A
Aroclor 1248	ND		ug/kg	36.5	5.47	1	A
Aroclor 1254	ND		ug/kg	36.5	3.99	1	A
Aroclor 1260	34.2	J	ug/kg	36.5	6.74	1	A
Aroclor 1262	ND		ug/kg	36.5	4.63	1	A
Aroclor 1268	23.9	J	ug/kg	36.5	3.78	1	A
PCBs, Total	58.1	J	ug/kg	36.5	3.24	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33
Client ID: B-22 (14-15)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 15:52
Analyst: JM
Percent Solids: 67%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:18
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	48.1	4.27	1	A
Aroclor 1221	ND		ug/kg	48.1	4.82	1	A
Aroclor 1232	ND		ug/kg	48.1	10.2	1	A
Aroclor 1242	ND		ug/kg	48.1	6.48	1	A
Aroclor 1248	ND		ug/kg	48.1	7.21	1	A
Aroclor 1254	ND		ug/kg	48.1	5.26	1	A
Aroclor 1260	ND		ug/kg	48.1	8.89	1	A
Aroclor 1262	ND		ug/kg	48.1	6.11	1	A
Aroclor 1268	ND		ug/kg	48.1	4.98	1	A
PCBs, Total	ND		ug/kg	48.1	4.27	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35
Client ID: B-23 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 16:00
Analyst: JM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:18
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	3.32	1	A
Aroclor 1221	ND		ug/kg	37.4	3.74	1	A
Aroclor 1232	ND		ug/kg	37.4	7.92	1	A
Aroclor 1242	ND		ug/kg	37.4	5.04	1	A
Aroclor 1248	ND		ug/kg	37.4	5.61	1	A
Aroclor 1254	ND		ug/kg	37.4	4.09	1	A
Aroclor 1260	ND		ug/kg	37.4	6.91	1	A
Aroclor 1262	ND		ug/kg	37.4	4.75	1	A
Aroclor 1268	ND		ug/kg	37.4	3.87	1	A
PCBs, Total	ND		ug/kg	37.4	3.32	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36
Client ID: B-24 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/19/21 16:08
Analyst: JM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:18
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	3.34	1	A
Aroclor 1221	ND		ug/kg	37.6	3.77	1	A
Aroclor 1232	ND		ug/kg	37.6	7.98	1	A
Aroclor 1242	ND		ug/kg	37.6	5.07	1	A
Aroclor 1248	ND		ug/kg	37.6	5.64	1	A
Aroclor 1254	ND		ug/kg	37.6	4.12	1	A
Aroclor 1260	36.4	J	ug/kg	37.6	6.95	1	B
Aroclor 1262	ND		ug/kg	37.6	4.78	1	A
Aroclor 1268	41.0		ug/kg	37.6	3.90	1	A
PCBs, Total	77.4	J	ug/kg	37.6	3.34	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	135		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37
Client ID: B-24 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/18/21 15:20
Analyst: CW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 02:29
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.3	3.40	1	A
Aroclor 1221	ND		ug/kg	38.3	3.84	1	A
Aroclor 1232	ND		ug/kg	38.3	8.13	1	A
Aroclor 1242	ND		ug/kg	38.3	5.17	1	A
Aroclor 1248	ND		ug/kg	38.3	5.75	1	A
Aroclor 1254	ND		ug/kg	38.3	4.19	1	A
Aroclor 1260	ND		ug/kg	38.3	7.08	1	A
Aroclor 1262	ND		ug/kg	38.3	4.87	1	A
Aroclor 1268	ND		ug/kg	38.3	3.97	1	A
PCBs, Total	ND		ug/kg	38.3	3.40	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD.
Lab Number: L2156166
Project Number: SHERIDAN
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-38
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/13/21 08:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/27/21 02:47
Analyst: CW

Extraction Method: EPA 3510C
Extraction Date: 10/26/21 04:15
Cleanup Method: EPA 3665A
Cleanup Date: 10/26/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/26/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41
Client ID: B-17 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/18/21 15:52
Analyst: CW
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 02:29
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.6	3.25	1	A
Aroclor 1221	ND		ug/kg	36.6	3.66	1	A
Aroclor 1232	ND		ug/kg	36.6	7.75	1	A
Aroclor 1242	ND		ug/kg	36.6	4.93	1	A
Aroclor 1248	ND		ug/kg	36.6	5.49	1	A
Aroclor 1254	ND		ug/kg	36.6	4.00	1	A
Aroclor 1260	ND		ug/kg	36.6	6.76	1	B
Aroclor 1262	ND		ug/kg	36.6	4.64	1	A
Aroclor 1268	6.73	J	ug/kg	36.6	3.79	1	B
PCBs, Total	6.73	J	ug/kg	36.6	3.25	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42
Client ID: B-18 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/18/21 15:36
Analyst: CW
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 02:29
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.0	3.02	1	A
Aroclor 1221	ND		ug/kg	34.0	3.41	1	A
Aroclor 1232	ND		ug/kg	34.0	7.22	1	A
Aroclor 1242	ND		ug/kg	34.0	4.59	1	A
Aroclor 1248	9.67	J	ug/kg	34.0	5.11	1	A
Aroclor 1254	ND		ug/kg	34.0	3.72	1	A
Aroclor 1260	ND		ug/kg	34.0	6.29	1	A
Aroclor 1262	ND		ug/kg	34.0	4.32	1	A
Aroclor 1268	ND		ug/kg	34.0	3.53	1	A
PCBs, Total	9.67	J	ug/kg	34.0	3.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43
Client ID: B-20 (11-12)
Sample Location: BRONX, NY

Date Collected: 10/14/21 11:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/18/21 16:00
Analyst: CW
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 10/18/21 02:29
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.5	3.59	1	A
Aroclor 1221	ND		ug/kg	40.5	4.06	1	A
Aroclor 1232	ND		ug/kg	40.5	8.58	1	A
Aroclor 1242	ND		ug/kg	40.5	5.46	1	A
Aroclor 1248	ND		ug/kg	40.5	6.07	1	A
Aroclor 1254	ND		ug/kg	40.5	4.43	1	A
Aroclor 1260	ND		ug/kg	40.5	7.48	1	A
Aroclor 1262	ND		ug/kg	40.5	5.14	1	A
Aroclor 1268	ND		ug/kg	40.5	4.19	1	A
PCBs, Total	ND		ug/kg	40.5	3.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/19/21 14:00
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 10/17/21 20:09
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 Batch: WG1559740-1						
Aroclor 1016	ND		ug/kg	31.4	2.79	A
Aroclor 1221	ND		ug/kg	31.4	3.15	A
Aroclor 1232	ND		ug/kg	31.4	6.66	A
Aroclor 1242	ND		ug/kg	31.4	4.23	A
Aroclor 1248	ND		ug/kg	31.4	4.71	A
Aroclor 1254	ND		ug/kg	31.4	3.44	A
Aroclor 1260	ND		ug/kg	31.4	5.80	A
Aroclor 1262	ND		ug/kg	31.4	3.99	A
Aroclor 1268	ND		ug/kg	31.4	3.25	A
PCBs, Total	ND		ug/kg	31.4	2.79	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/18/21 14:40
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 10/18/21 02:29
Cleanup Method: EPA 3665A
Cleanup Date: 10/18/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/18/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 37,41-43 Batch: WG1559763-1						
Aroclor 1016	ND		ug/kg	31.8	2.82	A
Aroclor 1221	ND		ug/kg	31.8	3.18	A
Aroclor 1232	ND		ug/kg	31.8	6.74	A
Aroclor 1242	ND		ug/kg	31.8	4.28	A
Aroclor 1248	ND		ug/kg	31.8	4.77	A
Aroclor 1254	ND		ug/kg	31.8	3.48	A
Aroclor 1260	ND		ug/kg	31.8	5.87	A
Aroclor 1262	ND		ug/kg	31.8	4.04	A
Aroclor 1268	ND		ug/kg	31.8	3.29	A
PCBs, Total	ND		ug/kg	31.8	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/19/21 10:20
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 10/18/21 19:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/19/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06,08-09,11-14 Batch: WG1560146-1						
Aroclor 1016	ND		ug/kg	32.4	2.88	A
Aroclor 1221	ND		ug/kg	32.4	3.25	A
Aroclor 1232	ND		ug/kg	32.4	6.87	A
Aroclor 1242	ND		ug/kg	32.4	4.37	A
Aroclor 1248	ND		ug/kg	32.4	4.86	A
Aroclor 1254	ND		ug/kg	32.4	3.54	A
Aroclor 1260	ND		ug/kg	32.4	5.99	A
Aroclor 1262	ND		ug/kg	32.4	4.12	A
Aroclor 1268	ND		ug/kg	32.4	3.36	A
PCBs, Total	ND		ug/kg	32.4	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/26/21 03:10
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 10/25/21 04:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/25/21
Cleanup Method: EPA 3660B
Cleanup Date: 10/25/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 28,38 Batch: WG1562534-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	0.091		ug/l	0.071	0.061	A
PCBs, Total	0.091		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	62		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 15-17,19,21-22,25-27,30,32-33,35-36 Batch: WG1559740-2 WG1559740-3									
Aroclor 1016	77		42		40-140	**59**	Q	50	A
Aroclor 1260	86		47		40-140	**59**	Q	50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		36		30-150	A
Decachlorobiphenyl	91		50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		38		30-150	B
Decachlorobiphenyl	85		46		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 37,41-43 Batch: WG1559763-2 WG1559763-3									
Aroclor 1016	75		78		40-140	4		50	A
Aroclor 1260	87		91		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		70		30-150	A
Decachlorobiphenyl	93		97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		72		30-150	B
Decachlorobiphenyl	84		86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06,08-09,11-14 Batch: WG1560146-2 WG1560146-3									
Aroclor 1016	92		85		40-140	8		50	A
Aroclor 1260	86		85		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		75		30-150	A
Decachlorobiphenyl	68		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		74		30-150	B
Decachlorobiphenyl	65		62		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 28,38 Batch: WG1562534-2 WG1562534-3									
Aroclor 1016	75		73		40-140	2		50	A
Aroclor 1260	73		71		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		69		30-150	A
Decachlorobiphenyl	74		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		64		30-150	B
Decachlorobiphenyl	70		67		30-150	B

METALS

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01 Date Collected: 10/12/21 09:50

Client ID: B-1 (4.5-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12000		mg/kg	9.51	2.57	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.76	0.361	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Arsenic, Total	3.78		mg/kg	0.951	0.198	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Barium, Total	41.9		mg/kg	0.951	0.165	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Beryllium, Total	0.514		mg/kg	0.476	0.031	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.951	0.093	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Calcium, Total	2520		mg/kg	9.51	3.33	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Chromium, Total	24.4		mg/kg	0.951	0.091	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Cobalt, Total	7.15		mg/kg	1.90	0.158	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Copper, Total	19.4		mg/kg	0.951	0.245	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Iron, Total	21200		mg/kg	4.76	0.859	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Lead, Total	278		mg/kg	4.76	0.255	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Magnesium, Total	1880		mg/kg	9.51	1.46	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Manganese, Total	106		mg/kg	0.951	0.151	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Mercury, Total	0.065	J	mg/kg	0.079	0.051	1	10/20/21 10:00	10/21/21 09:44	EPA 7471B	1,7471B	AC
Nickel, Total	12.6		mg/kg	2.38	0.230	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Potassium, Total	627		mg/kg	238	13.7	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Selenium, Total	0.723	J	mg/kg	1.90	0.245	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.951	0.269	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Sodium, Total	835		mg/kg	190	3.00	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.90	0.300	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Vanadium, Total	24.9		mg/kg	0.951	0.193	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL
Zinc, Total	56.8		mg/kg	4.76	0.279	2	10/20/21 06:00	10/20/21 20:02	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02 Date Collected: 10/12/21 09:30

Client ID: B-1 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5700		mg/kg	8.87	2.40	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Antimony, Total	2.82	J	mg/kg	4.44	0.337	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Arsenic, Total	5.45		mg/kg	0.887	0.184	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Barium, Total	64.4		mg/kg	0.887	0.154	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Beryllium, Total	0.284	J	mg/kg	0.444	0.029	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Cadmium, Total	0.798	J	mg/kg	0.887	0.087	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Calcium, Total	59800		mg/kg	88.7	31.0	20	10/20/21 06:00	10/20/21 22:45	EPA 3050B	1,6010D	DL
Chromium, Total	48.7		mg/kg	0.887	0.085	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Cobalt, Total	4.61		mg/kg	1.77	0.147	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Copper, Total	227		mg/kg	0.887	0.229	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Iron, Total	18200		mg/kg	4.44	0.801	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Lead, Total	241		mg/kg	4.44	0.238	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Magnesium, Total	2480		mg/kg	8.87	1.37	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Manganese, Total	160		mg/kg	0.887	0.141	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Mercury, Total	0.098		mg/kg	0.072	0.047	1	10/20/21 10:00	10/21/21 09:57	EPA 7471B	1,7471B	AC
Nickel, Total	24.0		mg/kg	2.22	0.215	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Potassium, Total	830		mg/kg	222	12.8	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Selenium, Total	0.302	J	mg/kg	1.77	0.229	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Silver, Total	0.488	J	mg/kg	0.887	0.251	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Sodium, Total	2150		mg/kg	177	2.79	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.77	0.279	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Vanadium, Total	21.9		mg/kg	0.887	0.180	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL
Zinc, Total	191		mg/kg	4.44	0.260	2	10/20/21 06:00	10/20/21 20:31	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03 Date Collected: 10/12/21 10:10

Client ID: B-2 (2.5-3.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10600		mg/kg	9.32	2.52	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.66	0.354	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Arsenic, Total	3.21		mg/kg	0.932	0.194	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Barium, Total	59.2		mg/kg	0.932	0.162	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Beryllium, Total	0.298	J	mg/kg	0.466	0.031	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.932	0.091	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Calcium, Total	1580		mg/kg	9.32	3.26	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Chromium, Total	22.6		mg/kg	0.932	0.089	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Cobalt, Total	6.57		mg/kg	1.86	0.155	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Copper, Total	50.1		mg/kg	0.932	0.240	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Iron, Total	16200		mg/kg	4.66	0.841	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Lead, Total	37.0		mg/kg	4.66	0.250	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Magnesium, Total	2920		mg/kg	9.32	1.43	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Manganese, Total	78.6		mg/kg	0.932	0.148	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.075	0.049	1	10/20/21 10:00	10/21/21 10:01	EPA 7471B	1,7471B	AC
Nickel, Total	15.9		mg/kg	2.33	0.225	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Potassium, Total	2770		mg/kg	233	13.4	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Selenium, Total	1.34	J	mg/kg	1.86	0.240	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.932	0.264	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Sodium, Total	110	J	mg/kg	186	2.93	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.86	0.293	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Vanadium, Total	30.4		mg/kg	0.932	0.189	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL
Zinc, Total	65.6		mg/kg	4.66	0.273	2	10/20/21 06:00	10/20/21 20:35	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04 Date Collected: 10/12/21 10:25

Client ID: B-2 (5-6) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6770		mg/kg	9.49	2.56	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Antimony, Total	0.617	J	mg/kg	4.75	0.361	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Arsenic, Total	6.03		mg/kg	0.949	0.197	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Barium, Total	47.6		mg/kg	0.949	0.165	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Beryllium, Total	0.275	J	mg/kg	0.475	0.031	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.949	0.093	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Calcium, Total	15600		mg/kg	9.49	3.32	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Chromium, Total	32.5		mg/kg	0.949	0.091	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Cobalt, Total	5.88		mg/kg	1.90	0.158	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Copper, Total	25.3		mg/kg	0.949	0.245	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Iron, Total	14900		mg/kg	4.75	0.857	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Lead, Total	29.2		mg/kg	4.75	0.254	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Magnesium, Total	2460		mg/kg	9.49	1.46	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Manganese, Total	120		mg/kg	0.949	0.151	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Mercury, Total	0.120		mg/kg	0.078	0.051	1	10/20/21 10:00	10/21/21 10:04	EPA 7471B	1,7471B	AC
Nickel, Total	13.1		mg/kg	2.37	0.230	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Potassium, Total	1350		mg/kg	237	13.7	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Selenium, Total	1.41	J	mg/kg	1.90	0.245	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.949	0.269	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Sodium, Total	171	J	mg/kg	190	2.99	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.90	0.299	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Vanadium, Total	19.8		mg/kg	0.949	0.193	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL
Zinc, Total	53.9		mg/kg	4.75	0.278	2	10/20/21 06:00	10/20/21 20:39	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05 Date Collected: 10/12/21 11:00

Client ID: B-3 (3-4) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5620		mg/kg	8.95	2.42	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Antimony, Total	0.653	J	mg/kg	4.48	0.340	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Arsenic, Total	22.7		mg/kg	0.895	0.186	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Barium, Total	185		mg/kg	0.895	0.156	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Beryllium, Total	0.349	J	mg/kg	0.448	0.030	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.895	0.088	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Calcium, Total	5290		mg/kg	8.95	3.13	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Chromium, Total	25.8		mg/kg	0.895	0.086	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Cobalt, Total	12.3		mg/kg	1.79	0.148	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Copper, Total	60.7		mg/kg	0.895	0.231	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Iron, Total	28200		mg/kg	4.48	0.808	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Lead, Total	359		mg/kg	4.48	0.240	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Magnesium, Total	1950		mg/kg	8.95	1.38	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Manganese, Total	157		mg/kg	0.895	0.142	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Mercury, Total	0.185		mg/kg	0.076	0.049	1	10/20/21 10:00	10/21/21 10:23	EPA 7471B	1,7471B	AC
Nickel, Total	15.4		mg/kg	2.24	0.217	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Potassium, Total	1850		mg/kg	224	12.9	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Selenium, Total	2.41		mg/kg	1.79	0.231	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.895	0.253	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Sodium, Total	1420		mg/kg	179	2.82	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.79	0.282	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Vanadium, Total	25.0		mg/kg	0.895	0.182	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL
Zinc, Total	148		mg/kg	4.48	0.262	2	10/20/21 06:00	10/20/21 20:43	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06 Date Collected: 10/12/21 10:50

Client ID: B-3 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12800		mg/kg	9.59	2.59	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.80	0.364	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Arsenic, Total	19.2		mg/kg	0.959	0.200	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Barium, Total	71.2		mg/kg	0.959	0.167	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Beryllium, Total	0.518		mg/kg	0.480	0.032	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.959	0.094	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Calcium, Total	1110		mg/kg	9.59	3.36	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Chromium, Total	30.2		mg/kg	0.959	0.092	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Cobalt, Total	16.3		mg/kg	1.92	0.159	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Copper, Total	39.5		mg/kg	0.959	0.247	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Iron, Total	22500		mg/kg	4.80	0.866	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Lead, Total	9.95		mg/kg	4.80	0.257	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Magnesium, Total	1950		mg/kg	9.59	1.48	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Manganese, Total	112		mg/kg	0.959	0.152	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.081	0.053	1	10/20/21 10:00	10/21/21 10:26	EPA 7471B	1,7471B	AC
Nickel, Total	17.5		mg/kg	2.40	0.232	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Potassium, Total	1110		mg/kg	240	13.8	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Selenium, Total	2.88		mg/kg	1.92	0.247	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.959	0.271	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Sodium, Total	500		mg/kg	192	3.02	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.92	0.302	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Vanadium, Total	27.6		mg/kg	0.959	0.195	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL
Zinc, Total	64.6		mg/kg	4.80	0.281	2	10/20/21 06:00	10/20/21 20:47	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08 Date Collected: 10/12/21 11:34

Client ID: B-5 (0.5-1) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3360		mg/kg	8.13	2.20	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Antimony, Total	0.358	J	mg/kg	4.07	0.309	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Arsenic, Total	2.54		mg/kg	0.813	0.169	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Barium, Total	26.2		mg/kg	0.813	0.142	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Beryllium, Total	0.163	J	mg/kg	0.407	0.027	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.813	0.080	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Calcium, Total	1710		mg/kg	8.13	2.85	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Chromium, Total	7.85		mg/kg	0.813	0.078	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Cobalt, Total	3.79		mg/kg	1.63	0.135	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Copper, Total	14.2		mg/kg	0.813	0.210	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Iron, Total	7610		mg/kg	4.07	0.734	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Lead, Total	17.6		mg/kg	4.07	0.218	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Magnesium, Total	1210		mg/kg	8.13	1.25	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Manganese, Total	126		mg/kg	0.813	0.129	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.069	0.045	1	10/20/21 10:00	10/21/21 10:30	EPA 7471B	1,7471B	AC
Nickel, Total	9.03		mg/kg	2.03	0.197	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Potassium, Total	1050		mg/kg	203	11.7	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Selenium, Total	0.211	J	mg/kg	1.63	0.210	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.813	0.230	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Sodium, Total	70.1	J	mg/kg	163	2.56	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.63	0.256	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Vanadium, Total	10.2		mg/kg	0.813	0.165	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL
Zinc, Total	93.7		mg/kg	4.07	0.238	2	10/20/21 06:00	10/20/21 20:51	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09 Date Collected: 10/12/21 11:42

Client ID: B-5 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13300		mg/kg	9.42	2.54	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.71	0.358	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Arsenic, Total	1.65		mg/kg	0.942	0.196	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Barium, Total	57.7		mg/kg	0.942	0.164	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Beryllium, Total	0.330	J	mg/kg	0.471	0.031	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.942	0.092	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Calcium, Total	812		mg/kg	9.42	3.30	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Chromium, Total	29.9		mg/kg	0.942	0.091	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Cobalt, Total	9.44		mg/kg	1.88	0.156	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Copper, Total	15.9		mg/kg	0.942	0.243	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Iron, Total	24300		mg/kg	4.71	0.851	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Lead, Total	5.96		mg/kg	4.71	0.252	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Magnesium, Total	3570		mg/kg	9.42	1.45	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Manganese, Total	168		mg/kg	0.942	0.150	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.076	0.050	1	10/20/21 10:00	10/21/21 10:33	EPA 7471B	1,7471B	AC
Nickel, Total	13.8		mg/kg	2.36	0.228	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Potassium, Total	2300		mg/kg	236	13.6	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Selenium, Total	0.509	J	mg/kg	1.88	0.243	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.942	0.267	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Sodium, Total	120	J	mg/kg	188	2.97	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.88	0.297	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Vanadium, Total	41.5		mg/kg	0.942	0.191	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL
Zinc, Total	39.1		mg/kg	4.71	0.276	2	10/20/21 06:00	10/20/21 20:55	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11 Date Collected: 10/12/21 11:50

Client ID: B-6 (4-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8270		mg/kg	9.92	2.68	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.96	0.377	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Arsenic, Total	56.8		mg/kg	0.992	0.206	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Barium, Total	110		mg/kg	0.992	0.173	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Beryllium, Total	0.337	J	mg/kg	0.496	0.033	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.992	0.097	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Calcium, Total	1400		mg/kg	9.92	3.47	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Chromium, Total	14.6		mg/kg	0.992	0.095	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Cobalt, Total	3.50		mg/kg	1.98	0.165	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Copper, Total	185		mg/kg	0.992	0.256	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Iron, Total	13100		mg/kg	4.96	0.896	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Lead, Total	408		mg/kg	4.96	0.266	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Magnesium, Total	1390		mg/kg	9.92	1.53	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Manganese, Total	71.0		mg/kg	0.992	0.158	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Mercury, Total	0.097		mg/kg	0.082	0.053	1	10/20/21 10:00	10/21/21 10:36	EPA 7471B	1,7471B	AC
Nickel, Total	6.71		mg/kg	2.48	0.240	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Potassium, Total	340		mg/kg	248	14.3	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Selenium, Total	0.427	J	mg/kg	1.98	0.256	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.992	0.281	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Sodium, Total	169	J	mg/kg	198	3.13	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.98	0.313	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Vanadium, Total	19.3		mg/kg	0.992	0.201	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL
Zinc, Total	68.9		mg/kg	4.96	0.291	2	10/20/21 06:00	10/20/21 21:00	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12 Date Collected: 10/12/21 12:28

Client ID: B-7 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8160		mg/kg	8.71	2.35	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Antimony, Total	2.36	J	mg/kg	4.35	0.331	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Arsenic, Total	8.14		mg/kg	0.871	0.181	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Barium, Total	326		mg/kg	0.871	0.152	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Beryllium, Total	0.357	J	mg/kg	0.435	0.029	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Cadmium, Total	0.522	J	mg/kg	0.871	0.085	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Calcium, Total	8710		mg/kg	8.71	3.05	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Chromium, Total	22.1		mg/kg	0.871	0.084	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Cobalt, Total	7.97		mg/kg	1.74	0.144	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Copper, Total	78.2		mg/kg	0.871	0.225	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Iron, Total	20800		mg/kg	4.35	0.786	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Lead, Total	645		mg/kg	4.35	0.233	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Magnesium, Total	4640		mg/kg	8.71	1.34	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Manganese, Total	275		mg/kg	0.871	0.138	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Mercury, Total	1.72		mg/kg	0.072	0.047	1	10/20/21 10:00	10/21/21 10:40	EPA 7471B	1,7471B	AC
Nickel, Total	23.4		mg/kg	2.18	0.211	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Potassium, Total	2210		mg/kg	218	12.5	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Selenium, Total	0.331	J	mg/kg	1.74	0.225	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.871	0.246	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Sodium, Total	447		mg/kg	174	2.74	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.74	0.274	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Vanadium, Total	32.9		mg/kg	0.871	0.177	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL
Zinc, Total	730		mg/kg	4.35	0.255	2	10/20/21 06:00	10/20/21 21:04	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13 Date Collected: 10/12/21 13:20

Client ID: B-8 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6000		mg/kg	9.47	2.56	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Antimony, Total	1.33	J	mg/kg	4.73	0.360	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Arsenic, Total	14.8		mg/kg	0.947	0.197	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Barium, Total	311		mg/kg	0.947	0.165	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Beryllium, Total	0.322	J	mg/kg	0.473	0.031	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Cadmium, Total	0.123	J	mg/kg	0.947	0.093	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Calcium, Total	21400		mg/kg	9.47	3.31	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Chromium, Total	31.8		mg/kg	0.947	0.091	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Cobalt, Total	6.76		mg/kg	1.89	0.157	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Copper, Total	118		mg/kg	0.947	0.244	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Iron, Total	22100		mg/kg	4.73	0.855	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Lead, Total	538		mg/kg	4.73	0.254	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Magnesium, Total	2240		mg/kg	9.47	1.46	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Manganese, Total	259		mg/kg	0.947	0.150	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Mercury, Total	0.298		mg/kg	0.079	0.051	1	10/20/21 10:00	10/21/21 10:43	EPA 7471B	1,7471B	AC
Nickel, Total	17.7		mg/kg	2.37	0.229	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Potassium, Total	1330		mg/kg	237	13.6	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Selenium, Total	1.27	J	mg/kg	1.89	0.244	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Silver, Total	0.293	J	mg/kg	0.947	0.268	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Sodium, Total	776		mg/kg	189	2.98	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.89	0.298	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Vanadium, Total	28.2		mg/kg	0.947	0.192	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL
Zinc, Total	319		mg/kg	4.73	0.277	2	10/20/21 06:00	10/20/21 21:08	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14 Date Collected: 10/12/21 13:30

Client ID: B-8 (7-8) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1690		mg/kg	10.8	2.90	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Antimony, Total	1.06	J	mg/kg	5.38	0.408	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Arsenic, Total	8.00		mg/kg	1.08	0.224	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Barium, Total	102		mg/kg	1.08	0.187	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Beryllium, Total	0.280	J	mg/kg	0.538	0.036	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Cadmium, Total	0.538	J	mg/kg	1.08	0.105	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Calcium, Total	24200		mg/kg	10.8	3.76	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Chromium, Total	11.9		mg/kg	1.08	0.103	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Cobalt, Total	5.58		mg/kg	2.15	0.178	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Copper, Total	55.2		mg/kg	1.08	0.277	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Iron, Total	10700		mg/kg	5.38	0.971	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Lead, Total	285		mg/kg	5.38	0.288	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Magnesium, Total	13800		mg/kg	10.8	1.66	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Manganese, Total	172		mg/kg	1.08	0.171	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Mercury, Total	0.147		mg/kg	0.089	0.058	1	10/20/21 10:00	10/21/21 10:46	EPA 7471B	1,7471B	AC
Nickel, Total	14.2		mg/kg	2.69	0.260	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Potassium, Total	456		mg/kg	269	15.5	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Selenium, Total	1.43	J	mg/kg	2.15	0.277	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.08	0.304	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Sodium, Total	517		mg/kg	215	3.39	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.15	0.339	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Vanadium, Total	6.14		mg/kg	1.08	0.218	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL
Zinc, Total	526		mg/kg	5.38	0.315	2	10/20/21 06:00	10/20/21 21:45	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15 Date Collected: 10/12/21 12:35

Client ID: B-7 (4-5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7570		mg/kg	9.46	2.55	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Antimony, Total	7.41		mg/kg	4.73	0.359	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Arsenic, Total	9.18		mg/kg	0.946	0.197	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Barium, Total	341		mg/kg	0.946	0.164	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Beryllium, Total	0.340	J	mg/kg	0.473	0.031	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Cadmium, Total	1.66		mg/kg	0.946	0.093	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Calcium, Total	7110		mg/kg	9.46	3.31	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Chromium, Total	23.5		mg/kg	0.946	0.091	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Cobalt, Total	10.9		mg/kg	1.89	0.157	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Copper, Total	221		mg/kg	0.946	0.244	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Iron, Total	33600		mg/kg	4.73	0.854	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Lead, Total	807		mg/kg	4.73	0.254	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Magnesium, Total	6030		mg/kg	9.46	1.46	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Manganese, Total	713		mg/kg	0.946	0.150	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Mercury, Total	1.09		mg/kg	0.077	0.050	1	10/20/21 10:00	10/21/21 10:50	EPA 7471B	1,7471B	AC
Nickel, Total	16.9		mg/kg	2.36	0.229	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Potassium, Total	1380		mg/kg	236	13.6	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Selenium, Total	0.709	J	mg/kg	1.89	0.244	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Silver, Total	0.274	J	mg/kg	0.946	0.268	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Sodium, Total	1170		mg/kg	189	2.98	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Thallium, Total	0.359	J	mg/kg	1.89	0.298	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Vanadium, Total	20.5		mg/kg	0.946	0.192	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL
Zinc, Total	1560		mg/kg	4.73	0.277	2	10/20/21 06:00	10/20/21 21:49	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16 Date Collected: 10/12/21 12:55

Client ID: B-11 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	10600		mg/kg	8.91	2.41	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Antimony, Total	0.918	J	mg/kg	4.46	0.339	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Arsenic, Total	5.75		mg/kg	0.891	0.185	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Barium, Total	60.4		mg/kg	0.891	0.155	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Beryllium, Total	0.330	J	mg/kg	0.446	0.029	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.891	0.087	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Calcium, Total	17100		mg/kg	8.91	3.12	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Chromium, Total	27.6		mg/kg	0.891	0.086	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Cobalt, Total	6.04		mg/kg	1.78	0.148	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Copper, Total	35.2		mg/kg	0.891	0.230	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Iron, Total	17800		mg/kg	4.46	0.805	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Lead, Total	96.7		mg/kg	4.46	0.239	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Magnesium, Total	6320		mg/kg	8.91	1.37	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Manganese, Total	437		mg/kg	0.891	0.142	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Mercury, Total	0.157		mg/kg	0.074	0.048	1	10/20/21 10:00	10/21/21 10:53	EPA 7471B	1,7471B	AC
Nickel, Total	11.0		mg/kg	2.23	0.216	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Potassium, Total	926		mg/kg	223	12.8	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Selenium, Total	0.437	J	mg/kg	1.78	0.230	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.891	0.252	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Sodium, Total	212		mg/kg	178	2.81	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.78	0.281	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Vanadium, Total	21.7		mg/kg	0.891	0.181	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL
Zinc, Total	154		mg/kg	4.46	0.261	2	10/20/21 06:00	10/20/21 21:53	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17 Date Collected: 10/12/21 13:00

Client ID: B-11 (6-7) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11800		mg/kg	9.33	2.52	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.66	0.354	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Arsenic, Total	1.61		mg/kg	0.933	0.194	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Barium, Total	16.6		mg/kg	0.933	0.162	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Beryllium, Total	0.345	J	mg/kg	0.466	0.031	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.933	0.091	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Calcium, Total	850		mg/kg	9.33	3.26	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Chromium, Total	16.3		mg/kg	0.933	0.090	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Cobalt, Total	7.59		mg/kg	1.86	0.155	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Copper, Total	7.68		mg/kg	0.933	0.241	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Iron, Total	16300		mg/kg	4.66	0.842	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Lead, Total	10.1		mg/kg	4.66	0.250	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Magnesium, Total	3160		mg/kg	9.33	1.44	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Manganese, Total	172		mg/kg	0.933	0.148	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.078	0.051	1	10/20/21 10:00	10/21/21 11:03	EPA 7471B	1,7471B	AC
Nickel, Total	10.0		mg/kg	2.33	0.226	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Potassium, Total	744		mg/kg	233	13.4	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Selenium, Total	0.392	J	mg/kg	1.86	0.241	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.933	0.264	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Sodium, Total	298		mg/kg	186	2.94	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.86	0.294	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Vanadium, Total	20.8		mg/kg	0.933	0.189	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL
Zinc, Total	39.7		mg/kg	4.66	0.273	2	10/20/21 06:00	10/20/21 21:57	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19 Date Collected: 10/12/21 14:05

Client ID: B-13 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4940		mg/kg	9.28	2.50	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.64	0.353	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Arsenic, Total	1.65		mg/kg	0.928	0.193	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Barium, Total	30.6		mg/kg	0.928	0.161	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Beryllium, Total	0.121	J	mg/kg	0.464	0.031	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.928	0.091	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Calcium, Total	1110		mg/kg	9.28	3.25	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Chromium, Total	14.9		mg/kg	0.928	0.089	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Cobalt, Total	6.50		mg/kg	1.86	0.154	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Copper, Total	11.5		mg/kg	0.928	0.239	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Iron, Total	8680		mg/kg	4.64	0.838	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Lead, Total	2.68	J	mg/kg	4.64	0.249	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Magnesium, Total	2170		mg/kg	9.28	1.43	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Manganese, Total	216		mg/kg	0.928	0.148	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.076	0.050	1	10/20/21 10:00	10/21/21 11:06	EPA 7471B	1,7471B	AC
Nickel, Total	12.0		mg/kg	2.32	0.224	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Potassium, Total	1030		mg/kg	232	13.4	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Selenium, Total	ND		mg/kg	1.86	0.239	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.928	0.263	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Sodium, Total	99.8	J	mg/kg	186	2.92	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.86	0.292	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Vanadium, Total	18.6		mg/kg	0.928	0.188	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL
Zinc, Total	36.5		mg/kg	4.64	0.272	2	10/20/21 06:00	10/20/21 22:01	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21 Date Collected: 10/12/21 15:15

Client ID: B-13 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10900		mg/kg	10.2	2.75	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	5.10	0.388	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Arsenic, Total	1.94		mg/kg	1.02	0.212	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Barium, Total	18.3		mg/kg	1.02	0.178	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Beryllium, Total	0.530		mg/kg	0.510	0.034	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.02	0.100	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Calcium, Total	1040		mg/kg	10.2	3.57	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Chromium, Total	14.2		mg/kg	1.02	0.098	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Cobalt, Total	8.07		mg/kg	2.04	0.169	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Copper, Total	5.37		mg/kg	1.02	0.263	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Iron, Total	16000		mg/kg	5.10	0.921	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Lead, Total	8.77		mg/kg	5.10	0.273	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Magnesium, Total	1900		mg/kg	10.2	1.57	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Manganese, Total	81.3		mg/kg	1.02	0.162	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Mercury, Total	ND		mg/kg	0.082	0.054	1	10/20/21 10:00	10/21/21 11:09	EPA 7471B	1,7471B	AC
Nickel, Total	18.6		mg/kg	2.55	0.247	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Potassium, Total	461		mg/kg	255	14.7	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Selenium, Total	0.510	J	mg/kg	2.04	0.263	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.02	0.289	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Sodium, Total	140	J	mg/kg	204	3.21	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.04	0.321	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Vanadium, Total	18.8		mg/kg	1.02	0.207	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL
Zinc, Total	135		mg/kg	5.10	0.299	2	10/20/21 06:00	10/20/21 22:05	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22 Date Collected: 10/12/21 15:30

Client ID: B-14 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 53%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	18100		mg/kg	14.4	3.89	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	7.21	0.548	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Arsenic, Total	8.78		mg/kg	1.44	0.300	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Barium, Total	86.4		mg/kg	1.44	0.251	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Beryllium, Total	0.664	J	mg/kg	0.721	0.048	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.44	0.141	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Calcium, Total	1920		mg/kg	14.4	5.05	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Chromium, Total	325		mg/kg	1.44	0.138	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Cobalt, Total	9.03		mg/kg	2.88	0.239	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Copper, Total	85.8		mg/kg	1.44	0.372	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Iron, Total	24100		mg/kg	7.21	1.30	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Lead, Total	117		mg/kg	7.21	0.386	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Magnesium, Total	5450		mg/kg	14.4	2.22	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Manganese, Total	287		mg/kg	1.44	0.229	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Mercury, Total	2.21		mg/kg	0.118	0.077	1	10/20/21 10:00	10/21/21 11:13	EPA 7471B	1,7471B	AC
Nickel, Total	24.1		mg/kg	3.61	0.349	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Potassium, Total	2890		mg/kg	361	20.8	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Selenium, Total	1.01	J	mg/kg	2.88	0.372	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	1.44	0.408	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Sodium, Total	518		mg/kg	288	4.54	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.88	0.454	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Vanadium, Total	37.4		mg/kg	1.44	0.293	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL
Zinc, Total	182		mg/kg	7.21	0.423	2	10/20/21 06:00	10/20/21 22:09	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25 Date Collected: 10/12/21 15:15

Client ID: B-15 (4.5-5.5) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	15500		mg/kg	11.8	3.18	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Antimony, Total	1.03	J	mg/kg	5.90	0.448	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Arsenic, Total	26.6		mg/kg	1.18	0.245	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Barium, Total	92.6		mg/kg	1.18	0.205	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Beryllium, Total	0.354	J	mg/kg	0.590	0.039	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	1.18	0.116	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Calcium, Total	3150		mg/kg	11.8	4.13	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Chromium, Total	463		mg/kg	1.18	0.113	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Cobalt, Total	7.60		mg/kg	2.36	0.196	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Copper, Total	94.0		mg/kg	1.18	0.304	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Iron, Total	31300		mg/kg	5.90	1.06	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Lead, Total	213		mg/kg	5.90	0.316	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Magnesium, Total	5310		mg/kg	11.8	1.82	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Manganese, Total	256		mg/kg	1.18	0.188	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Mercury, Total	2.14		mg/kg	0.097	0.063	1	10/20/21 10:00	10/21/21 11:16	EPA 7471B	1,7471B	AC
Nickel, Total	19.7		mg/kg	2.95	0.286	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Potassium, Total	3190		mg/kg	295	17.0	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Selenium, Total	1.37	J	mg/kg	2.36	0.304	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Silver, Total	0.425	J	mg/kg	1.18	0.334	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Sodium, Total	302		mg/kg	236	3.72	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	2.36	0.372	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Vanadium, Total	37.7		mg/kg	1.18	0.239	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL
Zinc, Total	184		mg/kg	5.90	0.346	2	10/20/21 06:00	10/20/21 22:13	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26 Date Collected: 10/12/21 15:40

Client ID: B-16 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13100		mg/kg	8.12	2.19	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Antimony, Total	ND		mg/kg	4.06	0.308	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Arsenic, Total	0.990		mg/kg	0.812	0.169	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Barium, Total	97.4		mg/kg	0.812	0.141	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Beryllium, Total	0.560		mg/kg	0.406	0.027	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.812	0.080	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Calcium, Total	1010		mg/kg	8.12	2.84	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Chromium, Total	23.6		mg/kg	0.812	0.078	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Cobalt, Total	12.0		mg/kg	1.62	0.135	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Copper, Total	33.8		mg/kg	0.812	0.209	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Iron, Total	21500		mg/kg	4.06	0.733	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Lead, Total	8.29		mg/kg	4.06	0.218	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Magnesium, Total	5050		mg/kg	8.12	1.25	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Manganese, Total	296		mg/kg	0.812	0.129	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Mercury, Total	0.169		mg/kg	0.068	0.044	1	10/20/21 10:00	10/21/21 11:19	EPA 7471B	1,7471B	AC
Nickel, Total	19.6		mg/kg	2.03	0.196	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Potassium, Total	7020		mg/kg	203	11.7	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Selenium, Total	0.349	J	mg/kg	1.62	0.209	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Silver, Total	ND		mg/kg	0.812	0.230	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Sodium, Total	450		mg/kg	162	2.56	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Thallium, Total	ND		mg/kg	1.62	0.256	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Vanadium, Total	36.8		mg/kg	0.812	0.165	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL
Zinc, Total	52.0		mg/kg	4.06	0.238	2	10/20/21 06:00	10/20/21 22:17	EPA 3050B	1,6010D	DL

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27 Date Collected: 10/12/21 15:45

Client ID: B-16 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11500		mg/kg	9.02	2.43	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.51	0.342	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Arsenic, Total	0.739	J	mg/kg	0.902	0.188	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Barium, Total	62.6		mg/kg	0.902	0.157	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Beryllium, Total	0.451		mg/kg	0.451	0.030	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Cadmium, Total	0.342	J	mg/kg	0.902	0.088	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Calcium, Total	882		mg/kg	9.02	3.16	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Chromium, Total	21.6		mg/kg	0.902	0.087	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Cobalt, Total	10.5		mg/kg	1.80	0.150	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Copper, Total	16.9		mg/kg	0.902	0.233	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Iron, Total	17600		mg/kg	4.51	0.814	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Lead, Total	38.6		mg/kg	4.51	0.242	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Magnesium, Total	2920		mg/kg	9.02	1.39	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Manganese, Total	402		mg/kg	0.902	0.143	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Mercury, Total	0.071	J	mg/kg	0.093	0.061	1	10/19/21 21:39	10/20/21 18:53	EPA 7471B	1,7471B	AC
Nickel, Total	14.9		mg/kg	2.25	0.218	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Potassium, Total	1900		mg/kg	225	13.0	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.80	0.233	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.902	0.255	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Sodium, Total	248		mg/kg	180	2.84	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.80	0.284	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Vanadium, Total	30.3		mg/kg	0.902	0.183	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV
Zinc, Total	36.0		mg/kg	4.51	0.264	2	10/19/21 20:54	10/21/21 09:49	EPA 3050B	1,6010D	SV

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-28 Date Collected: 10/12/21 08:45

Client ID: FB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Barium, Total	ND		mg/l	0.00050	0.00017	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Calcium, Total	ND		mg/l	0.100	0.0394	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Chromium, Total	ND		mg/l	0.00100	0.00017	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Copper, Total	ND		mg/l	0.00100	0.00038	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Iron, Total	ND		mg/l	0.0500	0.0191	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Lead, Total	ND		mg/l	0.00100	0.00034	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Manganese, Total	ND		mg/l	0.00100	0.00044	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/26/21 11:17	10/27/21 06:32	EPA 7470A	1,7470A	AC
Nickel, Total	ND		mg/l	0.00200	0.00055	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Potassium, Total	ND		mg/l	0.100	0.0309	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Sodium, Total	ND		mg/l	0.100	0.0293	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Thallium, Total	ND		mg/l	0.00100	0.00014	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/26/21 09:57	10/27/21 19:59	EPA 3005A	1,6020B	PS

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30 Date Collected: 10/13/21 09:00

Client ID: B-10 (0.5-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5680		mg/kg	8.44	2.28	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Antimony, Total	1.56	J	mg/kg	4.22	0.321	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Arsenic, Total	7.03		mg/kg	0.844	0.176	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Barium, Total	94.8		mg/kg	0.844	0.147	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Beryllium, Total	0.836		mg/kg	0.422	0.028	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Cadmium, Total	1.54		mg/kg	0.844	0.083	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Calcium, Total	31600		mg/kg	8.44	2.96	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Chromium, Total	20.1		mg/kg	0.844	0.081	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Cobalt, Total	11.2		mg/kg	1.69	0.140	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Copper, Total	171		mg/kg	0.844	0.218	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Iron, Total	18800		mg/kg	4.22	0.762	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Lead, Total	193		mg/kg	4.22	0.226	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Magnesium, Total	4490		mg/kg	8.44	1.30	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Manganese, Total	438		mg/kg	0.844	0.134	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Mercury, Total	0.149		mg/kg	0.082	0.054	1	10/19/21 21:39	10/20/21 19:13	EPA 7471B	1,7471B	AC
Nickel, Total	29.8		mg/kg	2.11	0.204	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Potassium, Total	1250		mg/kg	211	12.2	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Selenium, Total	0.963	J	mg/kg	1.69	0.218	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.844	0.239	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Sodium, Total	388		mg/kg	169	2.66	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.69	0.266	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Vanadium, Total	24.4		mg/kg	0.844	0.171	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV
Zinc, Total	718		mg/kg	4.22	0.247	2	10/19/21 20:54	10/21/21 09:33	EPA 3050B	1,6010D	SV

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32 Date Collected: 10/13/21 10:50

Client ID: B-22 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5480		mg/kg	8.72	2.36	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Antimony, Total	84.2		mg/kg	4.36	0.331	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Arsenic, Total	22.8		mg/kg	0.872	0.181	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Barium, Total	259		mg/kg	0.872	0.152	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Beryllium, Total	0.288	J	mg/kg	0.436	0.029	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Cadmium, Total	10.1		mg/kg	0.872	0.086	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Calcium, Total	12800		mg/kg	8.72	3.05	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Chromium, Total	27.4		mg/kg	0.872	0.084	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Cobalt, Total	7.02		mg/kg	1.74	0.145	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Copper, Total	229		mg/kg	0.872	0.225	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Iron, Total	20600		mg/kg	4.36	0.788	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Lead, Total	2620		mg/kg	4.36	0.234	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Magnesium, Total	2500		mg/kg	8.72	1.34	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Manganese, Total	197		mg/kg	0.872	0.139	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Mercury, Total	0.237		mg/kg	0.081	0.053	1	10/19/21 21:39	10/20/21 19:16	EPA 7471B	1,7471B	AC
Nickel, Total	29.8		mg/kg	2.18	0.211	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Potassium, Total	1380		mg/kg	218	12.6	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Selenium, Total	1.86		mg/kg	1.74	0.225	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Silver, Total	0.663	J	mg/kg	0.872	0.247	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Sodium, Total	329		mg/kg	174	2.75	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.74	0.275	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Vanadium, Total	26.7		mg/kg	0.872	0.177	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV
Zinc, Total	384		mg/kg	4.36	0.256	2	10/19/21 20:54	10/21/21 09:39	EPA 3050B	1,6010D	SV

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33 Date Collected: 10/13/21 10:55

Client ID: B-22 (14-15) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12300		mg/kg	11.6	3.15	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	5.83	0.443	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Arsenic, Total	3.56		mg/kg	1.16	0.242	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Barium, Total	38.6		mg/kg	1.16	0.203	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Beryllium, Total	0.618		mg/kg	0.583	0.039	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Cadmium, Total	0.595	J	mg/kg	1.16	0.114	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Calcium, Total	1500		mg/kg	11.6	4.08	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Chromium, Total	26.0		mg/kg	1.16	0.112	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Cobalt, Total	9.68		mg/kg	2.33	0.194	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Copper, Total	10.7		mg/kg	1.16	0.301	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Iron, Total	26700		mg/kg	5.83	1.05	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Lead, Total	10.6		mg/kg	5.83	0.312	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Magnesium, Total	4650		mg/kg	11.6	1.80	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Manganese, Total	304		mg/kg	1.16	0.185	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.112	0.073	1	10/19/21 21:39	10/20/21 19:20	EPA 7471B	1,7471B	AC
Nickel, Total	18.3		mg/kg	2.91	0.282	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Potassium, Total	1650		mg/kg	291	16.8	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	2.33	0.301	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	1.16	0.330	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Sodium, Total	220	J	mg/kg	233	3.67	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	2.33	0.367	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Vanadium, Total	32.4		mg/kg	1.16	0.237	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV
Zinc, Total	54.1		mg/kg	5.83	0.342	2	10/19/21 20:54	10/21/21 09:44	EPA 3050B	1,6010D	SV

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35 Date Collected: 10/13/21 10:20

Client ID: B-23 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13000		mg/kg	9.22	2.49	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.61	0.350	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.922	0.192	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Barium, Total	85.7		mg/kg	0.922	0.160	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Beryllium, Total	0.406	J	mg/kg	0.461	0.030	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Cadmium, Total	0.415	J	mg/kg	0.922	0.090	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Calcium, Total	2460		mg/kg	9.22	3.22	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Chromium, Total	25.8		mg/kg	0.922	0.089	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Cobalt, Total	12.4		mg/kg	1.84	0.153	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Copper, Total	30.5		mg/kg	0.922	0.238	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Iron, Total	23200		mg/kg	4.61	0.832	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Lead, Total	8.23		mg/kg	4.61	0.247	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Magnesium, Total	4990		mg/kg	9.22	1.42	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Manganese, Total	294		mg/kg	0.922	0.146	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.091	0.059	1	10/19/21 21:39	10/20/21 19:23	EPA 7471B	1,7471B	AC
Nickel, Total	21.4		mg/kg	2.30	0.223	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Potassium, Total	4510		mg/kg	230	13.3	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.84	0.238	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.922	0.261	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Sodium, Total	275		mg/kg	184	2.90	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.84	0.290	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Vanadium, Total	34.5		mg/kg	0.922	0.187	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV
Zinc, Total	53.6		mg/kg	4.61	0.270	2	10/19/21 20:54	10/21/21 13:38	EPA 3050B	1,6010D	SV

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36 Date Collected: 10/13/21 11:50

Client ID: B-24 (1-2) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5200		mg/kg	8.89	2.40	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Antimony, Total	20.3		mg/kg	4.45	0.338	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Arsenic, Total	6.72		mg/kg	0.889	0.185	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Barium, Total	301		mg/kg	0.889	0.155	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Beryllium, Total	0.338	J	mg/kg	0.445	0.029	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Cadmium, Total	21.6		mg/kg	0.889	0.087	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Calcium, Total	20800		mg/kg	8.89	3.11	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Chromium, Total	32.3		mg/kg	0.889	0.085	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Cobalt, Total	7.98		mg/kg	1.78	0.148	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Copper, Total	270		mg/kg	0.889	0.229	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Iron, Total	32400		mg/kg	4.45	0.803	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Lead, Total	1700		mg/kg	4.45	0.238	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Magnesium, Total	2670		mg/kg	8.89	1.37	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Manganese, Total	224		mg/kg	0.889	0.141	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Mercury, Total	0.170		mg/kg	0.090	0.058	1	10/19/21 21:39	10/20/21 19:26	EPA 7471B	1,7471B	AC
Nickel, Total	25.8		mg/kg	2.22	0.215	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Potassium, Total	1010		mg/kg	222	12.8	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Selenium, Total	4.49		mg/kg	1.78	0.229	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.889	0.252	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Sodium, Total	308		mg/kg	178	2.80	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.78	0.280	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Vanadium, Total	26.0		mg/kg	0.889	0.180	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV
Zinc, Total	744		mg/kg	4.45	0.260	2	10/19/21 20:54	10/21/21 13:43	EPA 3050B	1,6010D	SV

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37 Date Collected: 10/13/21 11:25

Client ID: B-24 (9-10) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1690		mg/kg	9.02	2.43	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Antimony, Total	0.361	J	mg/kg	4.51	0.343	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Arsenic, Total	4.84		mg/kg	0.902	0.188	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Barium, Total	27.9		mg/kg	0.902	0.157	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Beryllium, Total	0.090	J	mg/kg	0.451	0.030	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Cadmium, Total	0.198	J	mg/kg	0.902	0.088	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Calcium, Total	2450		mg/kg	9.02	3.16	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Chromium, Total	4.31		mg/kg	0.902	0.087	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Cobalt, Total	3.34		mg/kg	1.80	0.150	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Copper, Total	15.0		mg/kg	0.902	0.233	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Iron, Total	7900		mg/kg	4.51	0.814	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Lead, Total	30.6		mg/kg	4.51	0.242	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Magnesium, Total	950		mg/kg	9.02	1.39	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Manganese, Total	96.2		mg/kg	0.902	0.143	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Mercury, Total	0.064	J	mg/kg	0.083	0.054	1	10/19/21 21:39	10/20/21 19:30	EPA 7471B	1,7471B	AC
Nickel, Total	5.22		mg/kg	2.25	0.218	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Potassium, Total	681		mg/kg	225	13.0	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Selenium, Total	2.11		mg/kg	1.80	0.233	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.902	0.255	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Sodium, Total	259		mg/kg	180	2.84	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.80	0.284	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Vanadium, Total	6.24		mg/kg	0.902	0.183	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV
Zinc, Total	21.8		mg/kg	4.51	0.264	2	10/19/21 20:54	10/21/21 13:33	EPA 3050B	1,6010D	SV

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-38 Date Collected: 10/13/21 08:00

Client ID: FB Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Barium, Total	ND		mg/l	0.00050	0.00017	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Calcium, Total	0.0498	J	mg/l	0.100	0.0394	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Chromium, Total	ND		mg/l	0.00100	0.00017	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Copper, Total	ND		mg/l	0.00100	0.00038	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Iron, Total	ND		mg/l	0.0500	0.0191	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Lead, Total	ND		mg/l	0.00100	0.00034	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Manganese, Total	ND		mg/l	0.00100	0.00044	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/26/21 11:17	10/27/21 06:36	EPA 7470A	1,7470A	AC
Nickel, Total	ND		mg/l	0.00200	0.00055	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Potassium, Total	ND		mg/l	0.100	0.0309	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Sodium, Total	ND		mg/l	0.100	0.0293	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Thallium, Total	0.00016	J	mg/l	0.00100	0.00014	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/26/21 09:57	10/27/21 19:54	EPA 3005A	1,6020B	PS

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41 Date Collected: 10/14/21 10:00

Client ID: B-17 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6160		mg/kg	8.88	2.40	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.44	0.338	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Arsenic, Total	3.78		mg/kg	0.888	0.185	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Barium, Total	94.0		mg/kg	0.888	0.154	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Beryllium, Total	0.258	J	mg/kg	0.444	0.029	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Cadmium, Total	1.04		mg/kg	0.888	0.087	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Calcium, Total	36200		mg/kg	8.88	3.11	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Chromium, Total	18.3		mg/kg	0.888	0.085	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Cobalt, Total	3.86		mg/kg	1.78	0.147	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Copper, Total	60.7		mg/kg	0.888	0.229	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Iron, Total	11000		mg/kg	4.44	0.802	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Lead, Total	47.0		mg/kg	4.44	0.238	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Magnesium, Total	3220		mg/kg	8.88	1.37	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Manganese, Total	212		mg/kg	0.888	0.141	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.090	0.059	1	10/19/21 21:39	10/20/21 19:33	EPA 7471B	1,7471B	AC
Nickel, Total	11.8		mg/kg	2.22	0.215	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Potassium, Total	787		mg/kg	222	12.8	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.78	0.229	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.888	0.251	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Sodium, Total	369		mg/kg	178	2.80	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.78	0.280	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Vanadium, Total	27.8		mg/kg	0.888	0.180	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV
Zinc, Total	124		mg/kg	4.44	0.260	2	10/19/21 20:54	10/21/21 13:49	EPA 3050B	1,6010D	SV

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42 Date Collected: 10/14/21 10:55

Client ID: B-18 (8-9) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12400		mg/kg	8.26	2.23	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.13	0.314	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Arsenic, Total	0.339	J	mg/kg	0.826	0.172	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Barium, Total	155		mg/kg	0.826	0.144	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Beryllium, Total	0.421		mg/kg	0.413	0.027	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Cadmium, Total	0.462	J	mg/kg	0.826	0.081	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Calcium, Total	3420		mg/kg	8.26	2.89	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Chromium, Total	30.8		mg/kg	0.826	0.079	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Cobalt, Total	12.4		mg/kg	1.65	0.137	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Copper, Total	175		mg/kg	0.826	0.213	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Iron, Total	20100		mg/kg	4.13	0.746	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Lead, Total	41.8		mg/kg	4.13	0.221	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Magnesium, Total	6030		mg/kg	8.26	1.27	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Manganese, Total	314		mg/kg	0.826	0.131	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Mercury, Total	0.149		mg/kg	0.080	0.052	1	10/19/21 21:39	10/20/21 19:43	EPA 7471B	1,7471B	AC
Nickel, Total	22.2		mg/kg	2.06	0.200	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Potassium, Total	6210		mg/kg	206	11.9	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Selenium, Total	0.240	J	mg/kg	1.65	0.213	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.826	0.234	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Sodium, Total	148	J	mg/kg	165	2.60	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.65	0.260	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Vanadium, Total	39.4		mg/kg	0.826	0.168	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV
Zinc, Total	94.3		mg/kg	4.13	0.242	2	10/19/21 20:54	10/21/21 13:54	EPA 3050B	1,6010D	SV

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43 Date Collected: 10/14/21 11:40

Client ID: B-20 (11-12) Date Received: 10/14/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9210		mg/kg	9.82	2.65	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Antimony, Total	ND		mg/kg	4.91	0.373	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Arsenic, Total	2.34		mg/kg	0.982	0.204	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Barium, Total	47.2		mg/kg	0.982	0.171	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Beryllium, Total	0.412	J	mg/kg	0.491	0.032	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Cadmium, Total	0.275	J	mg/kg	0.982	0.096	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Calcium, Total	1310		mg/kg	9.82	3.44	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Chromium, Total	15.2		mg/kg	0.982	0.094	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Cobalt, Total	5.32		mg/kg	1.96	0.163	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Copper, Total	9.53		mg/kg	0.982	0.253	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Iron, Total	13800		mg/kg	4.91	0.886	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Lead, Total	14.5		mg/kg	4.91	0.263	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Magnesium, Total	1790		mg/kg	9.82	1.51	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Manganese, Total	221		mg/kg	0.982	0.156	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Mercury, Total	ND		mg/kg	0.092	0.060	1	10/19/21 21:39	10/20/21 19:46	EPA 7471B	1,7471B	AC
Nickel, Total	7.90		mg/kg	2.45	0.238	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Potassium, Total	578		mg/kg	245	14.1	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Selenium, Total	ND		mg/kg	1.96	0.253	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.982	0.278	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Sodium, Total	233		mg/kg	196	3.09	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.96	0.309	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Vanadium, Total	25.3		mg/kg	0.982	0.199	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV
Zinc, Total	25.6		mg/kg	4.91	0.288	2	10/19/21 20:54	10/21/21 14:21	EPA 3050B	1,6010D	SV

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06,08-09,11-17,19,21-22,25-26 Batch: WG1560483-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Arsenic, Total	0.088	J	mg/kg	0.400	0.083	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Barium, Total	ND		mg/kg	0.400	0.070	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Calcium, Total	ND		mg/kg	4.00	1.40	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Copper, Total	ND		mg/kg	0.400	0.103	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Iron, Total	0.676	J	mg/kg	2.00	0.361	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Lead, Total	ND		mg/kg	2.00	0.107	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Potassium, Total	ND		mg/kg	100	5.76	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Silver, Total	ND		mg/kg	0.400	0.113	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Sodium, Total	ND		mg/kg	80.0	1.26	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/20/21 06:00	10/20/21 19:41	1,6010D	DL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06,08-09,11-17,19,21-22,25-26 Batch: WG1560487-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/20/21 10:00	10/21/21 09:38	1,7471B	AC

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 27,30,32-33,35-37,41-43 Batch: WG1560492-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Calcium, Total	ND		mg/kg	4.00	1.40	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Chromium, Total	0.084	J	mg/kg	0.400	0.038	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Iron, Total	0.588	J	mg/kg	2.00	0.361	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Sodium, Total	ND		mg/kg	80.0	1.26	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/19/21 20:54	10/21/21 09:22	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 27,30,32-33,35-37,41-43 Batch: WG1560493-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/19/21 21:39	10/20/21 18:47	1,7471B	AC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 28,38 Batch: WG1561983-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Barium, Total	ND		mg/l	0.00050	0.00017	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Calcium, Total	ND		mg/l	0.100	0.0394	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Chromium, Total	ND		mg/l	0.00100	0.00017	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Copper, Total	ND		mg/l	0.00100	0.00038	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Iron, Total	ND		mg/l	0.0500	0.0191	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Lead, Total	ND		mg/l	0.00100	0.00034	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Manganese, Total	ND		mg/l	0.00100	0.00044	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Nickel, Total	ND		mg/l	0.00200	0.00055	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Potassium, Total	ND		mg/l	0.100	0.0309	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Sodium, Total	ND		mg/l	0.100	0.0293	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Thallium, Total	ND		mg/l	0.00100	0.00014	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/26/21 09:57	10/27/21 18:48	1,6020B	PS

Project Name: 1460+1480 SHERIDAN BLVD. **Lab Number:** L2156166

Project Number: SHERIDAN **Report Date:** 10/28/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 28,38 Batch: WG1561990-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/26/21 11:17	10/27/21 05:49	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,08-09,11-17,19,21-22,25-26 Batch: WG1560483-2 SRM Lot Number: D109-540								
Aluminum, Total	75		-		50-150	-		
Antimony, Total	137		-		19-250	-		
Arsenic, Total	99		-		70-130	-		
Barium, Total	92		-		75-125	-		
Beryllium, Total	95		-		75-125	-		
Cadmium, Total	91		-		75-125	-		
Calcium, Total	91		-		73-128	-		
Chromium, Total	94		-		70-130	-		
Cobalt, Total	91		-		75-125	-		
Copper, Total	98		-		75-125	-		
Iron, Total	96		-		35-165	-		
Lead, Total	96		-		72-128	-		
Magnesium, Total	87		-		62-138	-		
Manganese, Total	89		-		74-126	-		
Nickel, Total	92		-		70-130	-		
Potassium, Total	89		-		59-141	-		
Selenium, Total	96		-		68-132	-		
Silver, Total	97		-		68-131	-		
Sodium, Total	94		-		35-165	-		
Thallium, Total	96		-		68-131	-		
Vanadium, Total	93		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,08-09,11-17,19,21-22,25-26 Batch: WG1560483-2 SRM Lot Number: D109-540					
Zinc, Total	95	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-06,08-09,11-17,19,21-22,25-26 Batch: WG1560487-2 SRM Lot Number: D109-540					
Mercury, Total	103	-	60-140	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 27,30,32-33,35-37,41-43 Batch: WG1560492-2 SRM Lot Number: D109-540					
Aluminum, Total	74	-	50-150	-	
Antimony, Total	127	-	19-250	-	
Arsenic, Total	110	-	70-130	-	
Barium, Total	98	-	75-125	-	
Beryllium, Total	104	-	75-125	-	
Cadmium, Total	104	-	75-125	-	
Calcium, Total	100	-	73-128	-	
Chromium, Total	106	-	70-130	-	
Cobalt, Total	103	-	75-125	-	
Copper, Total	107	-	75-125	-	
Iron, Total	101	-	35-165	-	
Lead, Total	105	-	72-128	-	
Magnesium, Total	92	-	62-138	-	
Manganese, Total	97	-	74-126	-	
Nickel, Total	104	-	70-130	-	
Potassium, Total	84	-	59-141	-	
Selenium, Total	105	-	68-132	-	
Silver, Total	107	-	68-131	-	
Sodium, Total	98	-	35-165	-	
Thallium, Total	104	-	68-131	-	
Vanadium, Total	107	-	59-141	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 27,30,32-33,35-37,41-43 Batch: WG1560492-2 SRM Lot Number: D109-540					
Zinc, Total	106	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 27,30,32-33,35-37,41-43 Batch: WG1560493-2 SRM Lot Number: D109-540					
Mercury, Total	110	-	60-140	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 28,38 Batch: WG1561983-2					
Aluminum, Total	98	-	80-120	-	
Antimony, Total	90	-	80-120	-	
Arsenic, Total	97	-	80-120	-	
Barium, Total	96	-	80-120	-	
Beryllium, Total	99	-	80-120	-	
Cadmium, Total	95	-	80-120	-	
Calcium, Total	97	-	80-120	-	
Chromium, Total	94	-	80-120	-	
Cobalt, Total	92	-	80-120	-	
Copper, Total	94	-	80-120	-	
Iron, Total	98	-	80-120	-	
Lead, Total	92	-	80-120	-	
Magnesium, Total	103	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	94	-	80-120	-	
Potassium, Total	102	-	80-120	-	
Selenium, Total	100	-	80-120	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	102	-	80-120	-	
Thallium, Total	94	-	80-120	-	
Vanadium, Total	94	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 28,38 Batch: WG1561983-2					
Zinc, Total	88	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 28,38 Batch: WG1561990-2					
Mercury, Total	102	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,08-09,11-17,19,21-22,25-26 QC Batch ID: WG1560483-3 QC Sample: L2156166-01 Client ID: B-1 (4.5-5)												
Aluminum, Total	12000	195	13600	**820**	Q	-	-		75-125	-		20
Antimony, Total	ND	48.8	29.8	**61**	Q	-	-		75-125	-		20
Arsenic, Total	3.78	11.7	13.1	80		-	-		75-125	-		20
Barium, Total	41.9	195	185	**73**	Q	-	-		75-125	-		20
Beryllium, Total	0.514	4.88	4.27	77		-	-		75-125	-		20
Cadmium, Total	ND	5.17	2.96	**57**	Q	-	-		75-125	-		20
Calcium, Total	2520	976	3150	**64**	Q	-	-		75-125	-		20
Chromium, Total	24.4	19.5	35.6	**57**	Q	-	-		75-125	-		20
Cobalt, Total	7.15	48.8	40.2	**68**	Q	-	-		75-125	-		20
Copper, Total	19.4	24.4	37.0	**72**	Q	-	-		75-125	-		20
Iron, Total	21200	97.6	21500	**307**	Q	-	-		75-125	-		20
Lead, Total	278	51.7	136	**0**	Q	-	-		75-125	-		20
Magnesium, Total	1880	976	2650	79		-	-		75-125	-		20
Manganese, Total	106	48.8	132	**53**	Q	-	-		75-125	-		20
Nickel, Total	12.6	48.8	46.5	**69**	Q	-	-		75-125	-		20
Potassium, Total	627	976	1300	**69**	Q	-	-		75-125	-		20
Selenium, Total	0.723J	11.7	9.21	79		-	-		75-125	-		20
Silver, Total	ND	29.3	23.7	81		-	-		75-125	-		20
Sodium, Total	835	976	1660	84		-	-		75-125	-		20
Thallium, Total	ND	11.7	7.80	**67**	Q	-	-		75-125	-		20
Vanadium, Total	24.9	48.8	63.2	78		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,08-09,11-17,19,21-22,25-26 QC Batch ID: WG1560483-3 QC Sample: L2156166-01 Client ID: B-1 (4.5-5)										
Zinc, Total	56.8	48.8	95.6	80		-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-06,08-09,11-17,19,21-22,25-26 QC Batch ID: WG1560487-3 QC Sample: L2156166-01 Client ID: B-1 (4.5-5)										
Mercury, Total	0.065J	0.156	0.302	**193**	Q	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 27,30,32-33,35-37,41-43 QC Batch ID: WG1560492-3 QC Sample: L2156166-27 Client ID: B-16 (8-9)										
Aluminum, Total	11500	179	11600	**56**	Q	-	-	75-125	-	20
Antimony, Total	ND	44.8	27.0	**60**	Q	-	-	75-125	-	20
Arsenic, Total	0.739J	10.7	9.94	92		-	-	75-125	-	20
Barium, Total	62.6	179	210	82		-	-	75-125	-	20
Beryllium, Total	0.451	4.48	4.26	95		-	-	75-125	-	20
Cadmium, Total	0.342J	4.74	4.14	87		-	-	75-125	-	20
Calcium, Total	882	895	1710	92		-	-	75-125	-	20
Chromium, Total	21.6	17.9	39.3	99		-	-	75-125	-	20
Cobalt, Total	10.5	44.8	43.2	**73**	Q	-	-	75-125	-	20
Copper, Total	16.9	22.4	39.6	101		-	-	75-125	-	20
Iron, Total	17600	89.5	18300	**782**	Q	-	-	75-125	-	20
Lead, Total	38.6	47.4	71.0	**68**	Q	-	-	75-125	-	20
Magnesium, Total	2920	895	3690	86		-	-	75-125	-	20
Manganese, Total	402	44.8	365	**0**	Q	-	-	75-125	-	20
Nickel, Total	14.9	44.8	48.8	76		-	-	75-125	-	20
Potassium, Total	1900	895	2660	85		-	-	75-125	-	20
Selenium, Total	ND	10.7	8.63	80		-	-	75-125	-	20
Silver, Total	ND	26.8	24.0	89		-	-	75-125	-	20
Sodium, Total	248	895	1010	85		-	-	75-125	-	20
Thallium, Total	ND	10.7	8.12	76		-	-	75-125	-	20
Vanadium, Total	30.3	44.8	72.7	95		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 27,30,32-33,35-37,41-43 QC Batch ID: WG1560492-3 QC Sample: L2156166-27 Client ID: B-16 (8-9)										
Zinc, Total	36.0	44.8	71.4	79		-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 27,30,32-33,35-37,41-43 QC Batch ID: WG1560493-3 QC Sample: L2156166-27 Client ID: B-16 (8-9)										
Mercury, Total	0.071J	0.184	0.230	**125**	Q	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 28,38 QC Batch ID: WG1561983-3 WG1561983-4 QC Sample: L2157249-01 Client ID: MS Sample												
Aluminum, Total	1.61	2	3.79	109		3.04	**72**	Q	75-125	**22**	Q	20
Antimony, Total	0.00077J	0.5	0.3690	**74**	Q	0.4084	82		75-125	10		20
Arsenic, Total	0.00070	0.12	0.1257	104		0.1235	102		75-125	2		20
Barium, Total	0.1823	2	2.187	100		2.154	98		75-125	2		20
Beryllium, Total	ND	0.05	0.04953	99		0.04872	97		75-125	2		20
Cadmium, Total	ND	0.053	0.05478	103		0.05363	101		75-125	2		20
Calcium, Total	78.9	10	93.6	**147**	Q	94.9	**160**	Q	75-125	1		20
Chromium, Total	0.01121	0.2	0.2027	96		0.2014	95		75-125	1		20
Cobalt, Total	0.00266	0.5	0.4892	97		0.4921	98		75-125	1		20
Copper, Total	0.00846	0.25	0.2614	101		0.2581	100		75-125	1		20
Iron, Total	3.51	1	4.68	117		3.72	**21**	Q	75-125	**23**	Q	20
Lead, Total	0.00184	0.53	0.5220	98		0.5170	97		75-125	1		20
Magnesium, Total	30.2	10	42.9	**127**	Q	42.8	**126**	Q	75-125	0		20
Manganese, Total	0.3589	0.5	0.8912	106		0.8749	103		75-125	2		20
Nickel, Total	0.01296	0.5	0.5007	98		0.5033	98		75-125	1		20
Potassium, Total	5.13	10	15.7	106		15.7	106		75-125	0		20
Selenium, Total	0.00240J	0.12	0.118	98		0.123	102		75-125	4		20
Silver, Total	ND	0.05	0.05202	104		0.05173	103		75-125	1		20
Sodium, Total	138.	10	153	**150**	Q	156	**180**	Q	75-125	2		20
Thallium, Total	0.00023J	0.12	0.1168	97		0.1182	98		75-125	1		20
Vanadium, Total	0.00305J	0.5	0.4871	97		0.4833	97		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 28,38 QC Batch ID: WG1561983-3 WG1561983-4 QC Sample: L2157249-01 Client ID: MS Sample									
Zinc, Total	0.00694J	0.5	0.4709	94	0.4712	94	75-125	0	20
Total Metals - Mansfield Lab Associated sample(s): 28,38 QC Batch ID: WG1561990-3 WG1561990-4 QC Sample: L2157249-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00488	98	0.00463	93	75-125	5	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,08-09,11-17,19,21-22,25-26 QC Batch ID: WG1560483-4 QC Sample: L2156166-01 Client ID: B-1 (4.5-5)						
Aluminum, Total	12000	13600	mg/kg	13		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	3.78	3.50	mg/kg	8		20
Barium, Total	41.9	30.8	mg/kg	**31**	Q	20
Beryllium, Total	0.514	0.503	mg/kg	2		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	2520	1180	mg/kg	**72**	Q	20
Chromium, Total	24.4	21.2	mg/kg	14		20
Cobalt, Total	7.15	7.09	mg/kg	1		20
Copper, Total	19.4	14.4	mg/kg	**30**	Q	20
Iron, Total	21200	22900	mg/kg	8		20
Lead, Total	278	17.0	mg/kg	**177**	Q	20
Magnesium, Total	1880	1710	mg/kg	9		20
Manganese, Total	106	94.7	mg/kg	11		20
Nickel, Total	12.6	12.6	mg/kg	0		20
Potassium, Total	627	494	mg/kg	**24**	Q	20
Selenium, Total	0.723J	0.750J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	835	860	mg/kg	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,08-09,11-17,19,21-22,25-26 QC Batch ID: WG1560483-4 QC Sample: L2156166-01 Client ID: B-1 (4.5-5)					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	24.9	27.8	mg/kg	11	20
Zinc, Total	56.8	54.2	mg/kg	5	20
Total Metals - Mansfield Lab Associated sample(s): 01-06,08-09,11-17,19,21-22,25-26 QC Batch ID: WG1560487-4 QC Sample: L2156166-01 Client ID: B-1 (4.5-5)					
Mercury, Total	0.065J	0.138	mg/kg	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 27,30,32-33,35-37,41-43 QC Batch ID: WG1560492-4 QC Sample: L2156166-27 Client ID: B-16 (8-9)						
Aluminum, Total	11500	11800	mg/kg	3		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	0.739J	0.872J	mg/kg	NC		20
Barium, Total	62.6	59.3	mg/kg	5		20
Beryllium, Total	0.451	0.477	mg/kg	6		20
Cadmium, Total	0.342J	0.360J	mg/kg	NC		20
Calcium, Total	882	886	mg/kg	0		20
Chromium, Total	21.6	24.8	mg/kg	14		20
Cobalt, Total	10.5	10.2	mg/kg	3		20
Copper, Total	16.9	17.0	mg/kg	1		20
Iron, Total	17600	18700	mg/kg	6		20
Lead, Total	38.6	38.4	mg/kg	1		20
Magnesium, Total	2920	3070	mg/kg	5		20
Manganese, Total	402	316	mg/kg	**24**	Q	20
Nickel, Total	14.9	15.8	mg/kg	6		20
Potassium, Total	1900	1720	mg/kg	10		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	248	251	mg/kg	1		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 27,30,32-33,35-37,41-43 QC Batch ID: WG1560492-4 QC Sample: L2156166-27 Client ID: B-16 (8-9)					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	30.3	33.0	mg/kg	9	20
Zinc, Total	36.0	37.3	mg/kg	4	20
Total Metals - Mansfield Lab Associated sample(s): 27,30,32-33,35-37,41-43 QC Batch ID: WG1560493-4 QC Sample: L2156166-27 Client ID: B-16 (8-9)					
Mercury, Total	0.071J	ND	mg/kg	NC	20

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2156166
Report Date: 10/28/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06,08-09,11-17,19,21-22,25-26 QC Batch ID: WG1560483-6 QC Sample: L2156166-01 Client ID: B-1 (4.5-5)						
Aluminum, Total	12000	14700	mg/kg	**23**	Q	20
Barium, Total	41.9	53.8	mg/kg	**28**	Q	20
Calcium, Total	2520	3280	mg/kg	**30**	Q	20
Chromium, Total	24.4	31.5	mg/kg	**29**	Q	20
Iron, Total	21200	27800	mg/kg	**31**	Q	20
Lead, Total	278	368	mg/kg	**32**	Q	20
Magnesium, Total	1880	2440	mg/kg	**30**	Q	20
Manganese, Total	106	138	mg/kg	**30**	Q	20
Vanadium, Total	24.9	31.6	mg/kg	**27**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 28,38 QC Batch ID: WG1561983-6 QC Sample: L2157249-01 Client ID: DUP Sample						
Aluminum, Total	1.61	1.64	mg/l	2		20
Barium, Total	0.1823	0.1859	mg/l	2		20
Calcium, Total	78.9	80.1	mg/l	2		20
Iron, Total	3.51	3.61	mg/l	3		20
Magnesium, Total	30.2	31.2	mg/l	3		20
Manganese, Total	0.3589	0.3761	mg/l	5		20
Potassium, Total	5.13	5.08	mg/l	1		20
Sodium, Total	138.	141.	mg/l	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-01
Client ID: B-1 (4.5-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-02
Client ID: B-1 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 09:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-03
Client ID: B-2 (2.5-3.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:10
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-04
Client ID: B-2 (5-6)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-05
Client ID: B-3 (3-4)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-06
Client ID: B-3 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.1		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-07
Client ID: B-4 (3-4)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:10
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-08
Client ID: B-5 (0.5-1)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:34
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-09
Client ID: B-5 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:42
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.9		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-10
Client ID: B-6 (0.5-1.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:54
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.5		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-11
Client ID: B-6 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-12
Client ID: B-7 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:28
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-13
Client ID: B-8 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-14
Client ID: B-8 (7-8)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.5		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-15
Client ID: B-7 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:35
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-16
Client ID: B-11 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 12:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-17
Client ID: B-11 (6-7)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-18
Client ID: B-12 (2-3)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:57
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.7		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-19
Client ID: B-13 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/12/21 14:05
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.0		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-20
Client ID: B-13 (2-3)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	10/15/21 10:31	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-21
Client ID: B-13 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.4		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-22
Client ID: B-14 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:30
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	53.0		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-23
Client ID: B-14 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 13:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.0		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-24
Client ID: B-15 (2-3)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:05
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.0		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-25
Client ID: B-15 (4.5-5.5)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	65.1		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-26
Client ID: B-16 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.6		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-27
Client ID: B-16 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/12/21 15:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-30
Client ID: B-10 (0.5-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 09:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.8		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-31
Client ID: B-21 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 09:35
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-32
Client ID: B-22 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-33
Client ID: B-22 (14-15)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.9		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-34
Client ID: B-23 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:10
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-35
Client ID: B-23 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 10:20
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-36
Client ID: B-24 (1-2)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:50
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-37
Client ID: B-24 (9-10)
Sample Location: BRONX, NY

Date Collected: 10/13/21 11:25
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-40
Client ID: B-17 (4-5)
Sample Location: BRONX, NY

Date Collected: 10/14/21 09:45
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.4		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-41
Client ID: B-17 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:00
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-42
Client ID: B-18 (8-9)
Sample Location: BRONX, NY

Date Collected: 10/14/21 10:55
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.3		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-43
Client ID: B-20 (11-12)
Sample Location: BRONX, NY

Date Collected: 10/14/21 11:40
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

SAMPLE RESULTS

Lab ID: L2156166-44
Client ID: B-19 (3-4)
Sample Location: BRONX, NY

Date Collected: 10/14/21 12:15
Date Received: 10/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	10/15/21 10:49	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1460+1480 SHERIDAN BLVD.

Project Number: SHERIDAN

Lab Number: L2156166

Report Date: 10/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1559038-1 QC Sample: L2156166-01 Client ID: B-1 (4.5-5)						
Solids, Total	80.2	79.4	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 21-27,30-37,40-44 QC Batch ID: WG1559039-1 QC Sample: L2156166-21 Client ID: B-13 (8-9)						
Solids, Total	76.4	78.8	%	3		20

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-01A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-01B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-01C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-01D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)
L2156166-01E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2156166-01F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-01G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-01X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-01Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-01Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-02A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-02B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-02C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-02D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-02E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2156166-02F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-02G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-02X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-02Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-02Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-03A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-03B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-03C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-03D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)
L2156166-03E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2156166-03F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-03G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-03X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-03Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-03Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-04A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-04B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-04C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-04D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-04E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2156166-04F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-04G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-04X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-04Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-04Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-05A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2156166-05B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2156166-05C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2156166-05D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)
L2156166-05E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2156166-05F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-05G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-05X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14),NYTCL-8260H(14)
L2156166-05Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2156166-05Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2156166-06A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-06B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-06C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-06D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-06E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2156166-06F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-06G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-06X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-06Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-06Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-07A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		HOLD-8260HLW(14)
L2156166-07B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		HOLD-8260HLW(14)
L2156166-07C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		HOLD-8260HLW(14)
L2156166-07D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)
L2156166-07E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),HOLD-METAL(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2156166-07F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		HOLD-PETRO(14)
L2156166-07G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		HOLD-PETRO(14),HOLD-8270(14),HOLD-8082(14)
L2156166-07X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		HOLD-8260HLW(14),HOLD-PETRO(14)
L2156166-07Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	HOLD-8260HLW(14)
L2156166-07Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	HOLD-8260HLW(14)
L2156166-08A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-08B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-08C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-08D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-08E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2156166-08F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-08G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-08X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-08Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-08Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-09A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-09B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-09C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-09D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)
L2156166-09E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2156166-09F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-09G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-09X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-09Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-09Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-10A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		HOLD-8260HLW(14)
L2156166-10B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		HOLD-8260HLW(14)
L2156166-10C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		HOLD-8260HLW(14)
L2156166-10D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-10E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HOLD-METAL(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2156166-10F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		HOLD-PETRO(14)
L2156166-10G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		HOLD-PETRO(14),HOLD-8270(14),HOLD-8082(14)
L2156166-10X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		HOLD-8260HLW(14),HOLD-PETRO(14)
L2156166-10Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	HOLD-8260HLW(14)
L2156166-10Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	HOLD-8260HLW(14)
L2156166-11A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-11B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-11C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-11D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)
L2156166-11E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2156166-11F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-11G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-11X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-11Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-11Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-12A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-12B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-12C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-12D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-12E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2156166-12F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-12G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-12X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-12Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-12Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-13A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-13B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-13C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-13D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2156166-13E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2156166-13F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		TPH-GRO(14)
L2156166-13G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-13X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-13Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-13Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-14A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-14B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-14C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-14D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-14E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2156166-14F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		TPH-GRO(14)
L2156166-14G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-14X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-14Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-14Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-15A	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-15B	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-15C	5 gram Encore Sampler	C	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L2156166-15D	Plastic 2oz unpreserved for TS	C	NA		2.6	Y	Absent		TS(7)
L2156166-15E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2156166-15F	Vial Large Septa unpreserved (4oz)	C	NA		2.6	Y	Absent		TPH-GRO(14)
L2156166-15G	Glass 250ml/8oz unpreserved	C	NA		2.6	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-15X	Vial MeOH preserved split	C	NA		2.6	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-15Y	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-15Z	Vial Water preserved split	C	NA		2.6	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-16A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-16B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-16C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-16D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-16E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2156166-16F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		TPH-GRO(14)
L2156166-16G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-16X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-16Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-16Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:38**	NYTCL-8260HLW(14)
L2156166-17A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-17B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-17C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-17D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2156166-17E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2156166-17F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		TPH-GRO(14)
L2156166-17G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-17X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-17Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:04**	NYTCL-8260HLW(14)
L2156166-17Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:04**	NYTCL-8260HLW(14)
L2156166-18A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-18B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-18C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-18D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-18E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),HOLD-METAL(180),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2156166-18F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		HOLD-PETRO(14)
L2156166-18G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-PETRO(14),HOLD-8270(14),HOLD-8082(14)
L2156166-18X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		HOLD-8260HLW(14),HOLD-PETRO(14)
L2156166-18Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	HOLD-8260HLW(14)
L2156166-18Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	HOLD-8260HLW(14)
L2156166-19A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-19B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-19C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-19D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2156166-19E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2156166-19F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		TPH-GRO(14)
L2156166-19G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-19X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-19Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-19Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-20A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-20B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-20C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-20D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-20E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),HOLD-METAL(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2156166-20F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		HOLD-PETRO(14)
L2156166-20G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-PETRO(14),HOLD-8270(14),HOLD-8082(14)
L2156166-20X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		HOLD-8260HLW(14),HOLD-PETRO(14)
L2156166-20Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	HOLD-8260HLW(14)
L2156166-20Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	HOLD-8260HLW(14)
L2156166-21A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-21B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-21C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-21D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2156166-21E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2156166-21F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		TPH-GRO(14)
L2156166-21G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-21X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-21Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-21Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-22A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-22B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-22C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-22D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-22E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2156166-22F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		TPH-GRO(14)
L2156166-22G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-22X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-22Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-22Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-23A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-23B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-23C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-23D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2156166-23E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HOLD-METAL(180),HG-T(28),FE-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2156166-23F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		HOLD-PETRO(14)
L2156166-23G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-PETRO(14),HOLD-8270(14),HOLD-8082(14)
L2156166-23X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		HOLD-8260HLW(14),HOLD-PETRO(14)
L2156166-23Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	HOLD-8260HLW(14)
L2156166-23Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	HOLD-8260HLW(14)
L2156166-24A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-24B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-24C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		HOLD-8260HLW(14)
L2156166-24D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2156166-24E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		HOLD-METAL(180)
L2156166-24F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		HOLD-PETRO(14)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-24G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-PETRO(14),HOLD-8270(14),HOLD-8082(14)
L2156166-24X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		HOLD-8260HLW(14),HOLD-PETRO(14)
L2156166-24Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	HOLD-8260HLW(14)
L2156166-24Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	HOLD-8260HLW(14)
L2156166-25A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-25B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-25C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-25D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2156166-25E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2156166-25F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		TPH-GRO(14)
L2156166-25G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-25X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-25Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-25Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-26A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-26B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-26C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-26D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2156166-26E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)
L2156166-26F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		TPH-GRO(14)
L2156166-26G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-26X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-26Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-26Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-27A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-27B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-27C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2156166-27D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2156166-27E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2156166-27F	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		TPH-GRO(14)
L2156166-27G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-27X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-27Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-27Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**15-OCT-21 07:03**	NYTCL-8260HLW(14)
L2156166-28A	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2156166-28B	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2156166-28C	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2156166-28D	Vial HCl preserved	D	NA		3.7	Y	Absent		TPH-GRO(14)
L2156166-28E	Vial HCl preserved	D	NA		3.7	Y	Absent		TPH-GRO(14)
L2156166-28F	Vial HCl preserved	D	NA		3.7	Y	Absent		TPH-GRO(14)
L2156166-28G	Plastic 250ml HNO3 preserved	D	<2	<2	3.7	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),AL-6020T(180),MG-6020T(180),CO-6020T(180)
L2156166-28H	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2156166-28I	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-28J	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8270-LVI(7)
L2156166-28K	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8270-LVI(7)
L2156166-28L	Amber 500ml unpreserved	D	7	7	3.7	Y	Absent		TPH-DRO(7)
L2156166-28M	Amber 500ml unpreserved	D	7	7	3.7	Y	Absent		TPH-DRO(7)
L2156166-29A	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2156166-29B	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2156166-30A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-30B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-30C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-30D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-30E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)
L2156166-30F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		TPH-GRO(14)
L2156166-30G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-30X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		TPH-GRO(14),NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-30Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-30Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2156166-31A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-31B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-31C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-31D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-31E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),HOLD-METAL(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2156166-31F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		HOLD-PETRO(14)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-31G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		HOLD-PETRO(14),HOLD-8270(14),HOLD-8082(14)
L2156166-31X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14),HOLD-PETRO(14)
L2156166-31Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	HOLD-8260HLW(14)
L2156166-31Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	HOLD-8260HLW(14)
L2156166-32A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-32B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-32C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-32D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-32E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2156166-32F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		TPH-GRO(14)
L2156166-32G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-32X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-32Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-32Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-33A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-33B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-33C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-33D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-33E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2156166-33F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		TPH-GRO(14)
L2156166-33G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-33X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-33Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-33Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-34A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-34B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-34C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-34D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-34E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),HOLD-METAL(180),MG-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2156166-34F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		HOLD-PETRO(14)
L2156166-34G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		HOLD-PETRO(14),HOLD-8270(14),HOLD-8082(14)
L2156166-34X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14),HOLD-PETRO(14)
L2156166-34Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	HOLD-8260HLW(14)
L2156166-34Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	HOLD-8260HLW(14)
L2156166-35A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-35B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-35C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-35D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-35E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2156166-35F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		TPH-GRO(14)
L2156166-35G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-35X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-35Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-35Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-36A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-36B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-36C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-36D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-36E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2156166-36F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		TPH-GRO(14)
L2156166-36G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-36X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-36Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-36Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-37A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-37B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-37C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-37D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-37E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2156166-37F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		TPH-GRO(14)
L2156166-37G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-37X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-37Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-37Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-38A	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2156166-38B	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2156166-38C	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-38D	Vial HCl preserved	D	NA		3.7	Y	Absent		TPH-GRO(14)
L2156166-38E	Vial HCl preserved	D	NA		3.7	Y	Absent		TPH-GRO(14)
L2156166-38F	Vial HCl preserved	D	NA		3.7	Y	Absent		TPH-GRO(14)
L2156166-38G	Plastic 250ml HNO3 preserved	D	<2	<2	3.7	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),CO-6020T(180)
L2156166-38H	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2156166-38I	Amber 120ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8082-LVI(365)
L2156166-38J	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8270-LVI(7)
L2156166-38K	Amber 250ml unpreserved	D	7	7	3.7	Y	Absent		NYTCL-8270-LVI(7)
L2156166-38L	Amber 500ml unpreserved	D	7	7	3.7	Y	Absent		TPH-DRO(7)
L2156166-38M	Amber 500ml unpreserved	D	7	7	3.7	Y	Absent		TPH-DRO(7)
L2156166-39A	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2156166-39B	Vial HCl preserved	D	NA		3.7	Y	Absent		NYTCL-8260(14)
L2156166-40A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-40B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-40C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-40D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-40E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),HOLD-METAL(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2156166-40F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		HOLD-PETRO(14)
L2156166-40G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		HOLD-PETRO(14),HOLD-8270(14),HOLD-8082(14)
L2156166-40X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14),HOLD-PETRO(14)
L2156166-40Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-40Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	HOLD-8260HLW(14)
L2156166-41A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-41B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-41C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-41D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-41E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2156166-41F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		TPH-GRO(14)
L2156166-41G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-41X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-41Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-41Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-42A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-42B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-42C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-42D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-42E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2156166-42F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		TPH-GRO(14)
L2156166-42G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-42X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-42Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-42Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-43A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-43B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1460+1480 SHERIDAN BLVD.
Project Number: SHERIDAN

Lab Number: L2156166
Report Date: 10/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2156166-43C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2156166-43D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-43E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2156166-43F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		TPH-GRO(14)
L2156166-43G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		NYTCL-8270(14),TPH-DRO(14),NYTCL-8082(365)
L2156166-43X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		TPH-GRO(14),NYTCL-8260HLW(14)
L2156166-43Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-43Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	NYTCL-8260HLW(14)
L2156166-44A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-44B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-44C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2156166-44D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2156166-44E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),HOLD-METAL(180),FE-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2156166-44F	Vial Large Septa unpreserved (4oz)	B	NA		3.0	Y	Absent		HOLD-PETRO(14)
L2156166-44G	Glass 250ml/8oz unpreserved	B	NA		3.0	Y	Absent		HOLD-PETRO(14),HOLD-8270(14),HOLD-8082(14)
L2156166-44X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14),HOLD-PETRO(14)
L2156166-44Y	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	HOLD-8260HLW(14)
L2156166-44Z	Vial Water preserved split	B	NA		3.0	Y	Absent	15-OCT-21 06:33	HOLD-8260HLW(14)

Container Comments

L2156166-14D Labeled as collected 12-OCT-21 13:00

*Values in parentheses indicate holding time in days

Project Name:	1460+1480 SHERIDAN BLVD.	**Lab Number:**	L2156166
Project Number:	SHERIDAN	**Report Date:**	10/28/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1460+1480 SHERIDAN BLVD.	**Lab Number:**	L2156166
Project Number:	SHERIDAN	**Report Date:**	10/28/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1460+1480 SHERIDAN BLVD.	**Lab Number:**	L2156166
Project Number:	SHERIDAN	**Report Date:**	10/28/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1460+1480 SHERIDAN BLVD.	**Lab Number:**	L2156166
Project Number:	SHERIDAN	**Report Date:**	10/28/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 5

Date Rec'd in Lab: 10/14/21

ALPHA Job #: L2156166

Client Information
Client: ECC Horizon
Address: 1 Emery Ave, Unit 2
Randolph NJ
Phone: 973 989 8010
Fax:
Email:

Project Information
Project Name: 1460 + 1480 Sheridan ~~Expressway~~ Blvd
Project Location: Bronx, NY
Project #: Sheridan
(Use Project name as Project #) ☐
Project Manager: Al Nesheiwat
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
cc results to nkrasnecky@envecc.com, anorberg@eccHorizon.com
* = may contain anthracite coal in sample

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	% solid	SVOC	GRO	PRO	TCL PCB	TAL Metal	Total Bottle	Sample Specific Comments
56166 - 01	B-1 (4.5-5)	10/12/21	950	Soil	AN	X	X	X	X	X	X	X		
02	B-1 (0.5-1)		930											
03	B-2 ~~(5-6)~~ (2.5-3.5)		1010											*
04	B-2 ~~(5-6)~~ (5-6)		1085											*
05	B-3 (3-4)		1100											
06	B-3 (9-10)		1050											*
07	B-4 (3-4)		1210											
08	B-5 (0.5-1)		1134											*
09	B-5 (4.5-5.5)		1142											
10	B-6 (0.5-1.5)		1154											*

Container Type: E P A A A A A
Preservative: A A A A A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	10/14/21 1235		10/14/21 1235
	10/14/21 14:00		10/14/21 1635
	10/14/21		10/14/21 2240

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTANTS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 5

Date Rec'd in Lab: 10/14/21

ALPHA Job #: L2156166

Client Information
Client: ECC Horizon
Address: 1 Emery Ave, Unit 2
Randolph NJ
Phone: 973 989 8010
Fax:
Email:

Project Information
Project Name: 1460 + 1480 Sheridan
Project Location: Bronx, NY
Project #: Sheridan
(Use Project name as Project #) ☐
Project Manager: M Nesheiwat
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
cc results to nkrasnecky@envecc.com
anorberg@ecchorizon.com
*=may contain anthracite coal in sample

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	% solid	SVOC	8270	PCB	TCL	TAL Metals		Sample Specific Comments	Total Bottle
2156166-11	B-6 (4-5)	10/13/21	1150	Soil	AN	X	X	X	X	X	X	X			
-12	B-7 (1-2)		1228											*	
-13	B-8 (4.5-5.5)		1320											*	
-14	B-8 (7-8)		1330											*	
-15	B-7 (4-5)		1235												
-16	B-11 (1-2)		1255												
-17	B-11 (6-7)		1300												
-18	B-12 (2-3)		1557												
-19	B-13 (9-10)		1405												
-20	B-13 (2-3)		1500											*	

Container Type: E P A A A A A
Preservative: A A A A A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/14/21 1735	[signature]	10/14/21 17:36
[signature]	10/14/21 14:00	D Lehrach AAL	10/14/21 1632
D Lehrach AAL	10/14/21	[signature]	10/14/21 22:00
[signature]	22		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
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FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 5

Date Rec'd in Lab: 10/14/21

ALPHA Job #: L2156166

Client Information
Client: ECC Horizon
Address: 1 Emery Ave Unit 2
Randolph NJ
Phone: 973 989 8010
Fax:
Email:

Project Information
Project Name: 1460 & 1480 Sheridan
Project Location: Bronx, NY
Project #: Sheridan
(Use Project name as Project #) ☐
Project Manager: Al Nesheiwat
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
CC results to nkrasnecky@envecc.com
amorberg@ecchoriton.com
(*may contain anthracite coal in sample

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	% Solid	SVOC	GRO	DRO	PCB	TAL Metals	Total Bottle	Sample Specific Comments
2156166-21	B-13 (8-9)	10/12/21	1515	Soil	AN	X	X	X	X	X	X	X		*
-22	B-14 (8-9)		1530											
-23	B-14 (1-2)		1525											*
-24	B-15 (2-3)		1505											*
-25	B-15 (4.5-5.5)		1515											
-26	B-16 (1-2)		1540											
-27	B-16 (8-9)		1545	↓			↓							
-28	FB	↓	845	FB	↓			↓	↓	↓	↓	↓		
-29	TB	10/11/21	—	TB										
-30	B-10 (0.5-2)	10/13/21	0900	Soil	AN	↓		X	X	X	X	X		

Container Type: E/V | P | A | A/V | A | A | A/P
Preservative: A/B | A | A | A/B | A | A | A/C

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	10/14/21 1735		
	10/14/21 1400		10/14/21 1632
	10/14/21 2200		10/14/21 2200

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 4 of 5

Date Rec'd in Lab: 10/14/21

ALPHA Job#: L2156166

Client Information
Client: ECC Horton
Address: 1 Emery Ave, Unit 2, Randolph NJ
Phone: 973 989 8010
Fax:
Email:

Project Information
Project Name: 1460 + 1480 Sheridan
Project Location: Bronx, NY
Project #: Sheridan
(Use Project name as Project #) ☐
Project Manager: Al Nesheiwat
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
cc results to nkrasnecky@envecc.com, anorberg@ecchoriton.com
* = may contain anthracite coal in sample

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	% solid	SVOC	GRO	DRO	TCL PCB	TAL Metal	Total Bottle	Sample Specific Comments
56166 - 31	B-21 (1-2)	10/13/21	935	Soil	AN	X	X	X	X	X	X	X		
-32	B-22 (1-2)		1050											
-33	B-22 (14-15)		1055											
-34	B-23 (1-2)		1010											
-35	B-23 (9-10)		1020											
-36	B-24 (1-2)		1150											
-37	B-24 (9-10)		1125				X							*
-38	FB	10/13/21	800	FB	AN	X		X	X	X	X	X		
-39	TB	10/11/21	—	TB	~~AN~~	X								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	E/V	P	A	A/V	A	A	A/P	
Preservative	A/B	A	A	A/B	A	A	A/C	

Relinquished By:	Date/Time	Received By:	Date/Time
	10/14/21 1235		10/14/21 1235
	10/14/21 14:00		10/14/21 1632
	10/14/21		10/15/21 22:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 5 of 5

Date Rec'd in Lab: 10/14/21

ALPHA Job #: L2156166

Client Information
Client: ECC Horizon
Address: 1 Emery Ave, Unit 2 Randolph, NJ
Phone: 973 989 8010
Fax:
Email:

Project Information
Project Name: 1460 + 1480 Sheridan
Project Location: Bronx, NY
Project #: Sheridan
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
CC results to nkrasnecky@envecc.com
anorberg@ecchoriton.com

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	% Solid	SVOC	8270	8270	TCL PCB	TAL Metal.	Total Bottle	Sample Specific Comments
L2156166-40	B-17 (4-5)	10/14/21	945	Soil	AN	X	X	X	X	X	X	X		
-41	B-17 (8-9)		1000											
-42	B-18 (8-9)		1055											
-43	B-20 (11-12)		1140											
-44	B-19 (3-4)		1215											

Container Type	E	P	A	A	A	A	A
Preservative	A	A	A	A	A	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/14/21 1335	[illegible]	10/14/21 1335
[illegible]	10/14/21 1400	[illegible]	10/14/21 1600
[illegible]	10/14/21 2100	[illegible]	10/14/21 22:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2159421
Client:	Environmental Compliance & Control, Inc. 1 Emery Avenue Unit 2 Randolph, NJ 07869
ATTN:	Al Nesheiwat
Phone:	(973) 927-1111
Project Name:	SHERIDAN
Project Number:	Not Specified
Report Date:	11/15/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2159421-01	MW-1	WATER	BRONX, NY	10/28/21 12:40	10/29/21
L2159421-02	MW-2	WATER	BRONX, NY	10/28/21 10:45	10/29/21
L2159421-03	MW-3	WATER	BRONX, NY	10/28/21 13:30	10/29/21
L2159421-04	MW-4	WATER	BRONX, NY	10/28/21 16:40	10/29/21
L2159421-05	MW-5	WATER	BRONX, NY	10/28/21 15:20	10/29/21
L2159421-06	FB	WATER	BRONX, NY	10/28/21 07:55	10/29/21
L2159421-07	TB	WATER	BRONX, NY	10/27/21 00:00	10/29/21

Project Name:	SHERIDAN	**Lab Number:**	L2159421
Project Number:	Not Specified	**Report Date:**	11/15/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: SHERIDAN **Lab Number:** L2159421
Project Number: Not Specified **Report Date:** 11/15/21

Case Narrative (continued)

Report Submission
November 15, 2021: This final report includes the results of all requested analyses.
November 05, 2021: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt
The analyses performed were specified by the client.

Volatile Organics
L2159421-04: The pH of the sample was greater than two; however, the sample was analyzed within the method required holding time.

Semivolatile Organics
The WG1565519-2/-3 LCS/LCSD recoveries, associated with L2159421-01 through -06, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Semivolatile Organics by SIM
L2159421-01D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Perfluorinated Alkyl Acids by Isotope Dilution
L2159421-01: The sample was centrifuged and decanted prior to extraction due to sample matrix.
L2159421-01 and -05: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.
WG1569327-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual

Project Name: SHERIDAN **Lab Number:** L2159421
Project Number: Not Specified **Report Date:** 11/15/21

Case Narrative (continued)

analytes. Please refer to the surrogate section of the report for details.

Total Metals

L2159421-06: The Field Blank has a result for sodium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 11/15/21

ORGANICS

VOLATILES

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-01 D
Client ID: MW-1
Sample Location: BRONX, NY

Date Collected: 10/28/21 12:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 10:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,3-Dichloropropene, Total	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	390		ug/l	5.0	1.6	10
Toluene	130		ug/l	25	7.0	10
Ethylbenzene	380		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-01 D Date Collected: 10/28/21 12:40
Client ID: MW-1 Date Received: 10/29/21
Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	450		ug/l	25	7.0	10
p/m-Xylene	2100		ug/l	25	7.0	10
o-Xylene	460		ug/l	25	7.0	10
Xylenes, Total	2600		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
1,2-Dichloroethene, Total	ND		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	38	J	ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	9.4	J	ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	38		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	140		ug/l	25	7.0	10

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-01 D Date Collected: 10/28/21 12:40

Client ID: MW-1 Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	92		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	480		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	800		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	270		ug/l	20	7.0	10
p-Ethyltoluene	750		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	110		ug/l	20	5.4	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-02
Client ID: MW-2
Sample Location: BRONX, NY

Date Collected: 10/28/21 10:45
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 10:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-02
Client ID: MW-2
Sample Location: BRONX, NY
Date Collected: 10/28/21 10:45
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	0.98	J	ug/l	2.5	0.70	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-02
Client ID: MW-2
Sample Location: BRONX, NY
Date Collected: 10/28/21 10:45
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-03
Client ID: MW-3
Sample Location: BRONX, NY

Date Collected: 10/28/21 13:30
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.18	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-03
Client ID: MW-3
Sample Location: BRONX, NY
Date Collected: 10/28/21 13:30
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	4.6		ug/l	2.5	0.70	1
p/m-Xylene	1.6	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	1.6	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.4		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-03
Client ID: MW-3
Sample Location: BRONX, NY
Date Collected: 10/28/21 13:30
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	0.81	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	0.70	J	ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-04
Client ID: MW-4
Sample Location: BRONX, NY

Date Collected: 10/28/21 16:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 11:24
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.48	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-04
Client ID: MW-4
Sample Location: BRONX, NY
Date Collected: 10/28/21 16:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	1.2	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	1.2	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.2		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-04
Client ID: MW-4
Sample Location: BRONX, NY
Date Collected: 10/28/21 16:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-05
Client ID: MW-5
Sample Location: BRONX, NY

Date Collected: 10/28/21 15:20
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 11:50
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	7.5		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.21	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	0.39	J	ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.23	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-05
Client ID: MW-5
Sample Location: BRONX, NY
Date Collected: 10/28/21 15:20
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	2.1	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	2.1	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-05
Client ID: MW-5
Sample Location: BRONX, NY
Date Collected: 10/28/21 15:20
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-06
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/28/21 07:55
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 09:10
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-06 Date Collected: 10/28/21 07:55

Client ID: FB Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-06
Client ID: FB
Sample Location: BRONX, NY
Date Collected: 10/28/21 07:55
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-07
Client ID: TB
Sample Location: BRONX, NY

Date Collected: 10/27/21 00:00
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/04/21 09:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-07 Date Collected: 10/27/21 00:00

Client ID: TB Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-07
Client ID: TB
Sample Location: BRONX, NY
Date Collected: 10/27/21 00:00
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:43
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1567258-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:43
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1567258-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/04/21 08:43
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1567258-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1567258-3 WG1567258-4								
Methylene chloride	85		93		70-130	9		20
1,1-Dichloroethane	96		110		70-130	14		20
Chloroform	92		100		70-130	8		20
Carbon tetrachloride	99		110		63-132	11		20
1,2-Dichloropropane	89		100		70-130	12		20
Dibromochloromethane	86		97		63-130	12		20
1,1,2-Trichloroethane	85		95		70-130	11		20
Tetrachloroethene	95		100		70-130	5		20
Chlorobenzene	92		100		75-130	8		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	97		110		70-130	13		20
1,1,1-Trichloroethane	94		100		67-130	6		20
Bromodichloromethane	88		97		67-130	10		20
trans-1,3-Dichloropropene	85		94		70-130	10		20
cis-1,3-Dichloropropene	81		92		70-130	13		20
1,1-Dichloropropene	93		100		70-130	7		20
Bromoform	80		93		54-136	15		20
1,1,2,2-Tetrachloroethane	85		100		67-130	16		20
Benzene	90		99		70-130	10		20
Toluene	90		100		70-130	11		20
Ethylbenzene	89		98		70-130	10		20
Chloromethane	99		110		64-130	11		20
Bromomethane	66		73		39-139	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1567258-3 WG1567258-4								
Vinyl chloride	98		110		55-140	12		20
Chloroethane	110		120		55-138	9		20
1,1-Dichloroethene	90		100		61-145	11		20
trans-1,2-Dichloroethene	90		96		70-130	6		20
Trichloroethene	83		95		70-130	13		20
1,2-Dichlorobenzene	90		100		70-130	11		20
1,3-Dichlorobenzene	92		100		70-130	8		20
1,4-Dichlorobenzene	92		100		70-130	8		20
Methyl tert butyl ether	81		92		63-130	13		20
p/m-Xylene	90		100		70-130	11		20
o-Xylene	90		100		70-130	11		20
cis-1,2-Dichloroethene	88		100		70-130	13		20
Dibromomethane	90		100		70-130	11		20
1,2,3-Trichloropropane	78		99		64-130	**24**	Q	20
Acrylonitrile	85		100		70-130	16		20
Styrene	90		100		70-130	11		20
Dichlorodifluoromethane	86		96		36-147	11		20
Acetone	72		80		58-148	11		20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	92		100		63-138	8		20
Vinyl acetate	120		**140**	Q	70-130	15		20
4-Methyl-2-pentanone	73		88		59-130	19		20
2-Hexanone	71		89		57-130	**23**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1567258-3 WG1567258-4								
Bromochloromethane	95		96		70-130	1		20
2,2-Dichloropropane	100		110		63-133	10		20
1,2-Dibromoethane	85		92		70-130	8		20
1,3-Dichloropropane	89		99		70-130	11		20
1,1,1,2-Tetrachloroethane	89		100		64-130	12		20
Bromobenzene	88		99		70-130	12		20
n-Butylbenzene	97		100		53-136	3		20
sec-Butylbenzene	97		110		70-130	13		20
tert-Butylbenzene	90		100		70-130	11		20
o-Chlorotoluene	89		98		70-130	10		20
p-Chlorotoluene	89		99		70-130	11		20
1,2-Dibromo-3-chloropropane	67		79		41-144	16		20
Hexachlorobutadiene	84		90		63-130	7		20
Isopropylbenzene	91		100		70-130	9		20
p-Isopropyltoluene	92		100		70-130	8		20
Naphthalene	72		92		70-130	**24**	Q	20
n-Propylbenzene	95		110		69-130	15		20
1,2,3-Trichlorobenzene	91		110		70-130	19		20
1,2,4-Trichlorobenzene	86		96		70-130	11		20
1,3,5-Trimethylbenzene	92		99		64-130	7		20
1,2,4-Trimethylbenzene	89		97		70-130	9		20
1,4-Dioxane	62		74		56-162	18		20
p-Diethylbenzene	92		100		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHERIDAN

Project Number: Not Specified

Lab Number: L2159421

Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1567258-3 WG1567258-4								
p-Ethyltoluene	94		100		70-130	6		20
1,2,4,5-Tetramethylbenzene	84		91		70-130	8		20
Ethyl ether	82		100		59-134	20		20
trans-1,4-Dichloro-2-butene	**66**	Q	76		70-130	14		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		110		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	96		98		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-01
Client ID: MW-1
Sample Location: BRONX, NY

Date Collected: 10/28/21 12:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/02/21 16:41
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.4	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-01
Client ID: MW-1
Sample Location: BRONX, NY
Date Collected: 10/28/21 12:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	24.		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	30.		ug/l	5.0	0.57	1
2-Methylphenol	12.		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	13.		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	77		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-01
Client ID: MW-1
Sample Location: BRONX, NY

Date Collected: 10/28/21 12:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/11/21 00:49
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/10/21 03:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	39.8	G	ng/l	1.82	0.371	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.82	0.360	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.82	0.216	1
Perfluorohexanoic Acid (PFHxA)	3.22		ng/l	1.82	0.298	1
Perfluoroheptanoic Acid (PFHpA)	1.68	J	ng/l	1.82	0.204	1
Perfluorohexanesulfonic Acid (PFHxS)	2.82		ng/l	1.82	0.342	1
Perfluorooctanoic Acid (PFOA)	15.0		ng/l	1.82	0.214	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	5.42		ng/l	1.82	1.21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.82	0.625	1
Perfluorononanoic Acid (PFNA)	2.92		ng/l	1.82	0.283	1
Perfluorooctanesulfonic Acid (PFOS)	27.0		ng/l	1.82	0.458	1
Perfluorodecanoic Acid (PFDA)	1.34	JF	ng/l	1.82	0.276	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.82	1.10	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.82	0.589	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.82	0.236	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.82	0.890	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.82	0.527	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.82	0.730	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.82	0.338	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.82	0.297	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.82	0.225	1
PFOA/PFOS, Total	42.0		ng/l	1.82	0.214	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-01 Date Collected: 10/28/21 12:40

Client ID: MW-1 Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**256**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**190**	Q	10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	29		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	91		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		22-136

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-01 D
Client ID: MW-1
Sample Location: BRONX, NY

Date Collected: 10/28/21 12:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/05/21 12:15
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.22		ug/l	0.20	0.03	2
2-Chloronaphthalene	ND		ug/l	0.40	0.04	2
Fluoranthene	0.09	J	ug/l	0.20	0.04	2
Hexachlorobutadiene	ND		ug/l	1.0	0.09	2
Naphthalene	54		ug/l	0.20	0.10	2
Benzo(a)anthracene	0.05	J	ug/l	0.20	0.04	2
Benzo(a)pyrene	ND		ug/l	0.20	0.03	2
Benzo(b)fluoranthene	0.03	J	ug/l	0.20	0.02	2
Benzo(k)fluoranthene	ND		ug/l	0.20	0.02	2
Chrysene	ND		ug/l	0.20	0.02	2
Acenaphthylene	0.11	J	ug/l	0.20	0.02	2
Anthracene	0.06	J	ug/l	0.20	0.03	2
Benzo(ghi)perylene	ND		ug/l	0.20	0.03	2
Fluorene	0.37		ug/l	0.20	0.03	2
Phenanthrene	0.34		ug/l	0.20	0.05	2
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.03	2
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.02	2
Pyrene	0.10	J	ug/l	0.20	0.04	2
2-Methylnaphthalene	62		ug/l	0.20	0.04	2
Pentachlorophenol	ND		ug/l	1.6	0.03	2
Hexachlorobenzene	ND		ug/l	1.6	0.02	2
Hexachloroethane	ND		ug/l	1.6	0.13	2

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-01 D
Client ID: MW-1
Sample Location: BRONX, NY

Date Collected: 10/28/21 12:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	63		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-02
Client ID: MW-2
Sample Location: BRONX, NY

Date Collected: 10/28/21 10:45
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/02/21 17:06
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.2	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-02
Client ID: MW-2
Sample Location: BRONX, NY
Date Collected: 10/28/21 10:45
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	82		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-02
Client ID: MW-2
Sample Location: BRONX, NY

Date Collected: 10/28/21 10:45
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/03/21 14:05
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.05	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.01	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.04	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-02 Date Collected: 10/28/21 10:45

Client ID: MW-2 Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	78		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-03
Client ID: MW-3
Sample Location: BRONX, NY

Date Collected: 10/28/21 13:30
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/02/21 17:32
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.6	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-03
Client ID: MW-3
Sample Location: BRONX, NY
Date Collected: 10/28/21 13:30
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	84		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-03
Client ID: MW-3
Sample Location: BRONX, NY

Date Collected: 10/28/21 13:30
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/03/21 14:24
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.05	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.10		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.13		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.11		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: SHERIDAN
Lab Number: L2159421
Project Number: Not Specified
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-03
Client ID: MW-3
Sample Location: BRONX, NY
Date Collected: 10/28/21 13:30
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	77		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-04
Client ID: MW-4
Sample Location: BRONX, NY

Date Collected: 10/28/21 16:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/03/21 10:05
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.6	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-04 Date Collected: 10/28/21 16:40

Client ID: MW-4 Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	69		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-04
Client ID: MW-4
Sample Location: BRONX, NY

Date Collected: 10/28/21 16:40
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/03/21 14:44
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.03	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.59		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.08	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.29		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.25		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.40		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.14		ug/l	0.10	0.01	1
Chrysene	0.31		ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.09	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.20		ug/l	0.10	0.01	1
Fluorene	0.04	J	ug/l	0.10	0.01	1
Phenanthrene	0.37		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.24		ug/l	0.10	0.01	1
Pyrene	0.52		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-04 Date Collected: 10/28/21 16:40

Client ID: MW-4 Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	76		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-05
Client ID: MW-5
Sample Location: BRONX, NY

Date Collected: 10/28/21 15:20
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/03/21 00:25
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.9	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-05 Date Collected: 10/28/21 15:20

Client ID: MW-5 Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	66		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-05
Client ID: MW-5
Sample Location: BRONX, NY

Date Collected: 10/28/21 15:20
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/03/21 15:04
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.06	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.06	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-05 Date Collected: 10/28/21 15:20

Client ID: MW-5 Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	77		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-05
Client ID: MW-5
Sample Location: BRONX, NY

Date Collected: 10/28/21 15:20
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/10/21 23:26
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/10/21 03:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	6.58		ng/l	1.83	0.374	1
Perfluoropentanoic Acid (PFPeA)	8.45		ng/l	1.83	0.363	1
Perfluorobutanesulfonic Acid (PFBS)	4.31		ng/l	1.83	0.218	1
Perfluorohexanoic Acid (PFHxA)	6.88		ng/l	1.83	0.300	1
Perfluoroheptanoic Acid (PFHpA)	4.88		ng/l	1.83	0.206	1
Perfluorohexanesulfonic Acid (PFHxS)	1.89		ng/l	1.83	0.344	1
Perfluorooctanoic Acid (PFOA)	14.3		ng/l	1.83	0.216	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.83	1.22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.83	0.630	1
Perfluorononanoic Acid (PFNA)	1.33	J	ng/l	1.83	0.286	1
Perfluorooctanesulfonic Acid (PFOS)	18.7		ng/l	1.83	0.462	1
Perfluorodecanoic Acid (PFDA)	0.821	J	ng/l	1.83	0.278	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.83	1.11	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.83	0.594	1
Perfluoroundecanoic Acid (PFUnA)	0.268	JF	ng/l	1.83	0.238	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.83	0.898	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.83	0.531	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.83	0.737	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.83	0.341	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.83	0.300	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.83	0.227	1
PFOA/PFOS, Total	33.0		ng/l	1.83	0.216	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-05 Date Collected: 10/28/21 15:20

Client ID: MW-5 Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	80		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	82		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	60		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	71		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**213**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	79		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	74		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	127		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	78		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	64		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		22-136

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-06
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/28/21 07:55
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/03/21 00:50
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.8	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-06 Date Collected: 10/28/21 07:55

Client ID: FB Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	49		10-120
4-Terphenyl-d14	71		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-06
Client ID: FB
Sample Location: BRONX, NY

Date Collected: 10/28/21 07:55
Date Received: 10/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/03/21 15:24
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/02/21 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: SHERIDAN **Lab Number:** L2159421

Project Number: Not Specified **Report Date:** 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-06 Date Collected: 10/28/21 07:55

Client ID: FB Date Received: 10/29/21

Sample Location: BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	79		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/01/21 23:45
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/01/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1565519-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/01/21 23:45
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/01/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1565519-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/01/21 23:45
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/01/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1565519-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	77		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/03/21 12:45
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/01/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG1565520-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.03	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/03/21 12:45
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/01/21 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG1565520-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	99		41-149

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/10/21 17:47
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 11/10/21 03:08

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,05 Batch: WG1569327-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	72		10-112

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/10/21 21:47
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/10/21 03:08

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,05 Batch: WG1569327-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/10/21 21:47
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 11/10/21 03:08

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,05 Batch: WG1569327-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	108		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	82		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	102		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	42		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		22-136

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1565519-2 WG1565519-3								
Acenaphthene	58		72		37-111	22		30
1,2,4-Trichlorobenzene	55		72		39-98	27		30
Hexachlorobenzene	52		61		40-140	16		30
Bis(2-chloroethyl)ether	59		81		40-140	**31**	Q	30
2-Chloronaphthalene	57		74		40-140	26		30
1,2-Dichlorobenzene	54		75		40-140	**33**	Q	30
1,3-Dichlorobenzene	53		73		40-140	**32**	Q	30
1,4-Dichlorobenzene	52		71		36-97	**31**	Q	30
3,3'-Dichlorobenzidine	47		65		40-140	**32**	Q	30
2,4-Dinitrotoluene	66		78		48-143	17		30
2,6-Dinitrotoluene	66		85		40-140	25		30
Fluoranthene	70		84		40-140	18		30
4-Chlorophenyl phenyl ether	57		71		40-140	22		30
4-Bromophenyl phenyl ether	58		72		40-140	22		30
Bis(2-chloroisopropyl)ether	91		121		40-140	28		30
Bis(2-chloroethoxy)methane	64		86		40-140	29		30
Hexachlorobutadiene	48		65		40-140	30		30
Hexachlorocyclopentadiene	40		55		40-140	**32**	Q	30
Hexachloroethane	52		75		40-140	**36**	Q	30
Isophorone	66		88		40-140	29		30
Naphthalene	55		72		40-140	27		30
Nitrobenzene	61		81		40-140	28		30
NDPA/DPA	62		77		40-140	22		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1565519-2 WG1565519-3								
n-Nitrosodi-n-propylamine	71		92		29-132	26		30
Bis(2-ethylhexyl)phthalate	85		100		40-140	16		30
Butyl benzyl phthalate	70		91		40-140	26		30
Di-n-butylphthalate	74		93		40-140	23		30
Di-n-octylphthalate	77		89		40-140	14		30
Diethyl phthalate	76		88		40-140	15		30
Dimethyl phthalate	65		80		40-140	21		30
Benzo(a)anthracene	76		89		40-140	16		30
Benzo(a)pyrene	66		78		40-140	17		30
Benzo(b)fluoranthene	68		79		40-140	15		30
Benzo(k)fluoranthene	72		84		40-140	15		30
Chrysene	76		87		40-140	13		30
Acenaphthylene	60		80		45-123	29		30
Anthracene	67		81		40-140	19		30
Benzo(ghi)perylene	69		82		40-140	17		30
Fluorene	62		74		40-140	18		30
Phenanthrene	65		79		40-140	19		30
Dibenzo(a,h)anthracene	67		78		40-140	15		30
Indeno(1,2,3-cd)pyrene	70		78		40-140	11		30
Pyrene	69		83		26-127	18		30
Biphenyl	62		79		40-140	24		30
4-Chloroaniline	54		78		40-140	**36**	Q	30
2-Nitroaniline	62		79		52-143	24		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1565519-2 WG1565519-3								
3-Nitroaniline	57		74		25-145	26		30
4-Nitroaniline	68		76		51-143	11		30
Dibenzofuran	58		74		40-140	24		30
2-Methylnaphthalene	57		75		40-140	27		30
1,2,4,5-Tetrachlorobenzene	50		70		2-134	**33**	Q	30
Acetophenone	66		88		39-129	29		30
2,4,6-Trichlorophenol	61		77		30-130	23		30
p-Chloro-m-cresol	72		88		23-97	20		30
2-Chlorophenol	60		79		27-123	27		30
2,4-Dichlorophenol	62		81		30-130	27		30
2,4-Dimethylphenol	63		81		30-130	25		30
2-Nitrophenol	60		78		30-130	26		30
4-Nitrophenol	68		**86**	Q	10-80	23		30
2,4-Dinitrophenol	21		22		20-130	5		30
4,6-Dinitro-o-cresol	62		70		20-164	12		30
Pentachlorophenol	35		49		9-103	**33**	Q	30
Phenol	49		59		12-110	19		30
2-Methylphenol	58		79		30-130	**31**	Q	30
3-Methylphenol/4-Methylphenol	62		79		30-130	24		30
2,4,5-Trichlorophenol	63		80		30-130	24		30
Benzoic Acid	**0**	Q	**0**	Q	10-164	NC		30
Benzyl Alcohol	60		76		26-116	24		30
Carbazole	68		85		55-144	22		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1565519-2 WG1565519-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	50		64		21-120
Phenol-d6	46		58		10-120
Nitrobenzene-d5	59		79		23-120
2-Fluorobiphenyl	55		72		15-120
2,4,6-Tribromophenol	47		59		10-120
4-Terphenyl-d14	61		77		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG1565520-2 WG1565520-3								
Acenaphthene	62		58		40-140	7		40
2-Chloronaphthalene	60		57		40-140	5		40
Fluoranthene	82		68		40-140	19		40
Hexachlorobutadiene	40		42		40-140	5		40
Naphthalene	55		55		40-140	0		40
Benzo(a)anthracene	80		65		40-140	21		40
Benzo(a)pyrene	82		59		40-140	33		40
Benzo(b)fluoranthene	95		75		40-140	24		40
Benzo(k)fluoranthene	88		73		40-140	19		40
Chrysene	84		69		40-140	20		40
Acenaphthylene	63		59		40-140	7		40
Anthracene	70		61		40-140	14		40
Benzo(ghi)perylene	87		68		40-140	25		40
Fluorene	64		59		40-140	8		40
Phenanthrene	71		63		40-140	12		40
Dibenzo(a,h)anthracene	91		72		40-140	23		40
Indeno(1,2,3-cd)pyrene	97		76		40-140	24		40
Pyrene	80		66		40-140	19		40
2-Methylnaphthalene	61		60		40-140	2		40
Pentachlorophenol	50		43		40-140	15		40
Hexachlorobenzene	59		56		40-140	5		40
Hexachloroethane	**39**	Q	42		40-140	7		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG1565520-2 WG1565520-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	50		42		21-120
Phenol-d6	44		37		10-120
Nitrobenzene-d5	63		61		23-120
2-Fluorobiphenyl	62		59		15-120
2,4,6-Tribromophenol	74		60		10-120
4-Terphenyl-d14	84		69		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHERIDAN

Project Number: Not Specified

Lab Number: L2159421

Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01,05		Batch: WG1569327-2					
Perfluorooctanesulfonamide (FOSA)	116		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	70				10-112

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHERIDAN

Project Number: Not Specified

Lab Number: L2159421

Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01,05		Batch: WG1569327-2					
Perfluorobutanoic Acid (PFBA)	98		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	96		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	97		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	97		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	94		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	96		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	99		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	97		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	98		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	95		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	102		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	105		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	105		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	96		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	99		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	95		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	99		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	103		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	102		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	133		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	102		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHERIDAN

Project Number: Not Specified

Lab Number: L2159421

Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,05 Batch: WG1569327-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	123				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	89				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	84				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	87				22-136

Matrix Spike Analysis

Batch Quality Control

Project Name: SHERIDAN

Project Number: Not Specified

Lab Number: L2159421

Report Date: 11/15/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,05 QC Batch ID: WG1569327-3 QC Sample: L2159327-03 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	1.59J	39.1	38.4	94		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	ND	39.1	40.3	103		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	34.8	31.7	91		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	36.6	39.0	106		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	ND	39.1	37.0	94		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	36.8	32.0	87		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	1.31JF	39.1	38.0	94		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	35.8	32.3	90		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	1.16JF	39.1	37.8	94		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	37.3	38.6	104		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	37.3	41.0	110		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	39.1	37.0	94		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.558J	36.3	38.2	104		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	39.1	38.8	99		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	37.6	41.3	110		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	37.7	36.6	97		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	39.1	43.4	111		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	39.1	40.8	104		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	37.7	34.9	92		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	39.1	37.6	96		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	39.1	45.9	117		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	39.1	41.2	105		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,05 QC Batch ID: WG1569327-3 QC Sample: L2159327-03 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	39.1	49.6	127		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	39.1	43.7	112		-	-		59-182	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	93				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	**440**	Q			12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**155**	Q			14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	36				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	39				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	69				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	71				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	65				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	70				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	59				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	57				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	70				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	13				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	75				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	71				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93				70-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,05 QC Batch ID: WG1569327-4 QC Sample: L2159421-05 Client ID: MW-5						
Perfluorobutanoic Acid (PFBA)	6.58	6.26	ng/l	5		30
Perfluoropentanoic Acid (PFPeA)	8.45	8.17	ng/l	3		30
Perfluorobutanesulfonic Acid (PFBS)	4.31	4.37	ng/l	1		30
Perfluorohexanoic Acid (PFHxA)	6.88	6.55	ng/l	5		30
Perfluoroheptanoic Acid (PFHpA)	4.88	4.88	ng/l	0		30
Perfluorohexanesulfonic Acid (PFHxS)	1.89	1.67J	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	14.3	14.4	ng/l	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	1.33J	1.19J	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	18.7	19.5	ng/l	4		30
Perfluorodecanoic Acid (PFDA)	0.821J	0.823JF	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	0.268JF	0.374J	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,05 QC Batch ID: WG1569327-4 QC Sample: L2159421-05 Client ID: MW-5						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	80		78		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	82		80		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		86		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	60		59		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	71		72		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		91		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		80		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**213**	Q	**197**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	79		79		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		87		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	74		73		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	127		139		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		55		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	78		77		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		21		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64		67		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	64		64		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		60		22-136

METALS

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-01
Client ID: MW-1
Sample Location: BRONX, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 12:40
Date Received: 10/29/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	29.8		mg/l	0.0100	0.00327	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Arsenic, Total	0.00975		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Barium, Total	0.2225		mg/l	0.00050	0.00017	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Beryllium, Total	0.00379		mg/l	0.00050	0.00010	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Cadmium, Total	0.00049		mg/l	0.00020	0.00005	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Calcium, Total	122.		mg/l	0.100	0.0394	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Chromium, Total	0.06044		mg/l	0.00100	0.00017	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Cobalt, Total	0.01726		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Copper, Total	0.06447		mg/l	0.00100	0.00038	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Iron, Total	31.3		mg/l	0.0500	0.0191	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Lead, Total	0.06464		mg/l	0.00100	0.00034	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Magnesium, Total	10.1		mg/l	0.0700	0.0242	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Manganese, Total	0.7236		mg/l	0.00100	0.00044	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Mercury, Total	0.00020		mg/l	0.00020	0.00009	1	11/10/21 21:56	11/11/21 10:39	EPA 7470A	1,7470A	AC
Nickel, Total	0.04363		mg/l	0.00200	0.00055	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Potassium, Total	16.8		mg/l	0.100	0.0309	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Selenium, Total	0.00522		mg/l	0.00500	0.00173	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Silver, Total	0.00017	J	mg/l	0.00040	0.00016	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Sodium, Total	105.		mg/l	0.100	0.0293	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Thallium, Total	0.00038	J	mg/l	0.00200	0.00014	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Vanadium, Total	0.05449		mg/l	0.00500	0.00157	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS
Zinc, Total	0.1266		mg/l	0.01000	0.00341	1	11/10/21 19:50	11/11/21 21:59	EPA 3005A	1,6020B	PS

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-02
Client ID: MW-2
Sample Location: BRONX, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 10:45
Date Received: 10/29/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3.06		mg/l	0.0100	0.00327	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Antimony, Total	0.00059	J	mg/l	0.00400	0.00042	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Arsenic, Total	0.00207		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Barium, Total	0.1369		mg/l	0.00050	0.00017	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Calcium, Total	158.		mg/l	0.100	0.0394	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Chromium, Total	0.00988		mg/l	0.00100	0.00017	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Cobalt, Total	0.00216		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Copper, Total	0.01215		mg/l	0.00100	0.00038	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Iron, Total	4.47		mg/l	0.0500	0.0191	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Lead, Total	0.02082		mg/l	0.00100	0.00034	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Magnesium, Total	69.5		mg/l	0.0700	0.0242	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Manganese, Total	0.09692		mg/l	0.00100	0.00044	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/10/21 21:56	11/11/21 11:24	EPA 7470A	1,7470A	AC
Nickel, Total	0.00565		mg/l	0.00200	0.00055	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Potassium, Total	33.4		mg/l	0.100	0.0309	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Selenium, Total	0.00241	J	mg/l	0.00500	0.00173	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Sodium, Total	490.		mg/l	1.00	0.293	10	11/10/21 19:50	11/12/21 00:11	EPA 3005A	1,6020B	PS
Thallium, Total	ND		mg/l	0.00200	0.00014	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Vanadium, Total	0.00811		mg/l	0.00500	0.00157	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS
Zinc, Total	0.02167		mg/l	0.01000	0.00341	1	11/10/21 19:50	11/11/21 22:04	EPA 3005A	1,6020B	PS

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-03
Client ID: MW-3
Sample Location: BRONX, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 13:30
Date Received: 10/29/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.35		mg/l	0.0100	0.00327	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Antimony, Total	0.00075	J	mg/l	0.00400	0.00042	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Arsenic, Total	0.00299		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Barium, Total	0.3164		mg/l	0.00050	0.00017	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Cadmium, Total	0.00009	J	mg/l	0.00020	0.00005	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Calcium, Total	102.		mg/l	0.100	0.0394	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Chromium, Total	0.00987		mg/l	0.00100	0.00017	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Cobalt, Total	0.00743		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Copper, Total	0.00752		mg/l	0.00100	0.00038	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Iron, Total	12.8		mg/l	0.0500	0.0191	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Lead, Total	0.00431		mg/l	0.00100	0.00034	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Magnesium, Total	9.62		mg/l	0.0700	0.0242	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Manganese, Total	2.998		mg/l	0.00100	0.00044	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/10/21 21:56	11/11/21 12:09	EPA 7470A	1,7470A	AC
Nickel, Total	0.02956		mg/l	0.00200	0.00055	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Potassium, Total	51.2		mg/l	0.100	0.0309	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Sodium, Total	287.		mg/l	0.100	0.0293	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Thallium, Total	ND		mg/l	0.00200	0.00014	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Vanadium, Total	0.00507		mg/l	0.00500	0.00157	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS
Zinc, Total	0.04250		mg/l	0.01000	0.00341	1	11/10/21 19:50	11/11/21 22:10	EPA 3005A	1,6020B	PS

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-04
Client ID: MW-4
Sample Location: BRONX, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 16:40
Date Received: 10/29/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	65.8		mg/l	0.0100	0.00327	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Antimony, Total	0.00505		mg/l	0.00400	0.00042	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Arsenic, Total	0.02647		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Barium, Total	0.9111		mg/l	0.00050	0.00017	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Beryllium, Total	0.00345		mg/l	0.00050	0.00010	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Cadmium, Total	0.02427		mg/l	0.00020	0.00005	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Calcium, Total	272.		mg/l	0.100	0.0394	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Chromium, Total	0.9612		mg/l	0.00100	0.00017	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Cobalt, Total	0.08055		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Copper, Total	0.6858		mg/l	0.00100	0.00038	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Iron, Total	182.		mg/l	0.0500	0.0191	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Lead, Total	2.617		mg/l	0.00100	0.00034	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Magnesium, Total	72.7		mg/l	0.0700	0.0242	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Manganese, Total	4.164		mg/l	0.00100	0.00044	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Mercury, Total	0.00054		mg/l	0.00020	0.00009	1	11/10/21 21:56	11/11/21 12:36	EPA 7470A	1,7470A	AC
Nickel, Total	0.5416		mg/l	0.00200	0.00055	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Potassium, Total	35.4		mg/l	0.100	0.0309	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Selenium, Total	0.0141		mg/l	0.00500	0.00173	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Silver, Total	0.00095		mg/l	0.00040	0.00016	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Sodium, Total	258.		mg/l	0.100	0.0293	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Thallium, Total	0.00152	J	mg/l	0.00200	0.00014	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Vanadium, Total	0.1983		mg/l	0.00500	0.00157	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS
Zinc, Total	1.060		mg/l	0.01000	0.00341	1	11/10/21 19:50	11/11/21 22:15	EPA 3005A	1,6020B	PS

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-05
Client ID: MW-5
Sample Location: BRONX, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 15:20
Date Received: 10/29/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	53.8		mg/l	0.0100	0.00327	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Antimony, Total	0.00100	J	mg/l	0.00400	0.00042	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Arsenic, Total	0.01139		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Barium, Total	0.6548		mg/l	0.00050	0.00017	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Beryllium, Total	0.00356		mg/l	0.00050	0.00010	1	11/10/21 19:50	11/12/21 17:38	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00419		mg/l	0.00020	0.00005	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Calcium, Total	104.		mg/l	0.100	0.0394	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Chromium, Total	0.1056		mg/l	0.00100	0.00017	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Cobalt, Total	0.04539		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Copper, Total	0.3024		mg/l	0.00100	0.00038	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Iron, Total	83.7		mg/l	0.0500	0.0191	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Lead, Total	0.4355		mg/l	0.00100	0.00034	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Magnesium, Total	37.3		mg/l	0.0700	0.0242	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Manganese, Total	2.734		mg/l	0.00100	0.00044	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Mercury, Total	0.00051		mg/l	0.00020	0.00009	1	11/10/21 21:56	11/11/21 13:28	EPA 7470A	1,7470A	AC
Nickel, Total	0.07067		mg/l	0.00200	0.00055	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Potassium, Total	25.2		mg/l	0.100	0.0309	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Selenium, Total	0.0103		mg/l	0.00500	0.00173	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Silver, Total	0.00075		mg/l	0.00040	0.00016	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Sodium, Total	127.		mg/l	0.100	0.0293	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Thallium, Total	0.00048	J	mg/l	0.00200	0.00014	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Vanadium, Total	0.1534		mg/l	0.00500	0.00157	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS
Zinc, Total	0.3389		mg/l	0.01000	0.00341	1	11/10/21 19:50	11/11/21 23:27	EPA 3005A	1,6020B	PS

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

SAMPLE RESULTS

Lab ID: L2159421-06
Client ID: FB
Sample Location: BRONX, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 07:55
Date Received: 10/29/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00748	J	mg/l	0.0100	0.00327	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Barium, Total	0.00038	J	mg/l	0.00050	0.00017	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/10/21 19:50	11/12/21 17:05	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Calcium, Total	0.0811	J	mg/l	0.100	0.0394	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Copper, Total	ND		mg/l	0.00100	0.00038	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Iron, Total	0.0230	J	mg/l	0.0500	0.0191	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Manganese, Total	0.00066	J	mg/l	0.00100	0.00044	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/10/21 21:56	11/11/21 13:31	EPA 7470A	1,7470A	AC
Nickel, Total	ND		mg/l	0.00200	0.00055	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Potassium, Total	ND		mg/l	0.100	0.0309	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Sodium, Total	0.296		mg/l	0.100	0.0293	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Thallium, Total	ND		mg/l	0.00200	0.00014	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS
Zinc, Total	ND		mg/l	0.01000	0.00341	1	11/10/21 19:50	11/11/21 22:37	EPA 3005A	1,6020B	PS

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1568516-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Barium, Total	ND		mg/l	0.00050	0.00017	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Calcium, Total	ND		mg/l	0.100	0.0394	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Copper, Total	ND		mg/l	0.00100	0.00038	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Iron, Total	ND		mg/l	0.0500	0.0191	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Manganese, Total	ND		mg/l	0.00100	0.00044	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Nickel, Total	ND		mg/l	0.00200	0.00055	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Potassium, Total	ND		mg/l	0.100	0.0309	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Sodium, Total	ND		mg/l	0.100	0.0293	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS
Zinc, Total	ND		mg/l	0.01000	0.00341	1	11/10/21 19:50	11/11/21 09:29	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1568517-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/10/21 21:56	11/11/21 09:33	1,7470A	AC

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHERIDAN

Project Number: Not Specified

Lab Number: L2159421

Report Date: 11/15/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1568516-2								
Aluminum, Total	102		-		80-120	-		
Antimony, Total	92		-		80-120	-		
Arsenic, Total	102		-		80-120	-		
Barium, Total	98		-		80-120	-		
Beryllium, Total	94		-		80-120	-		
Cadmium, Total	94		-		80-120	-		
Calcium, Total	92		-		80-120	-		
Chromium, Total	94		-		80-120	-		
Cobalt, Total	92		-		80-120	-		
Copper, Total	94		-		80-120	-		
Iron, Total	98		-		80-120	-		
Lead, Total	106		-		80-120	-		
Magnesium, Total	105		-		80-120	-		
Manganese, Total	97		-		80-120	-		
Nickel, Total	93		-		80-120	-		
Potassium, Total	103		-		80-120	-		
Selenium, Total	98		-		80-120	-		
Silver, Total	98		-		80-120	-		
Sodium, Total	104		-		80-120	-		
Thallium, Total	108		-		80-120	-		
Vanadium, Total	96		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1568516-2					
Zinc, Total	95	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1568517-2					
Mercury, Total	96	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1568516-3 WG1568516-4 QC Sample: L2159074-01 Client ID: MS Sample												
Aluminum, Total	0.119	2	2.10	99		1.97	92		75-125	6		20
Antimony, Total	0.00178J	0.5	0.4457	89		0.3942	79		75-125	12		20
Arsenic, Total	0.00304	0.12	0.1236	100		0.1218	99		75-125	1		20
Barium, Total	0.1905	2	2.106	96		2.072	94		75-125	2		20
Beryllium, Total	ND	0.05	0.05088	102		0.04685	94		75-125	8		20
Cadmium, Total	ND	0.053	0.04862	92		0.04767	90		75-125	2		20
Calcium, Total	73.2	10	82.9	97		80.4	**72**	Q	75-125	3		20
Chromium, Total	0.00033J	0.2	0.1842	92		0.1782	89		75-125	3		20
Cobalt, Total	0.00074	0.5	0.4498	90		0.4413	88		75-125	2		20
Copper, Total	0.00143	0.25	0.2256	90		0.2254	90		75-125	0		20
Iron, Total	2.28	1	3.21	93		3.12	84		75-125	3		20
Lead, Total	ND	0.53	0.5094	96		0.5009	94		75-125	2		20
Magnesium, Total	27.8	10	36.3	85		35.1	**73**	Q	75-125	3		20
Manganese, Total	1.201	0.5	1.745	109		1.701	100		75-125	3		20
Nickel, Total	0.00219	0.5	0.4517	90		0.4462	89		75-125	1		20
Potassium, Total	5.96	10	16.0	100		15.5	95		75-125	3		20
Selenium, Total	ND	0.12	0.119	99		0.116	97		75-125	3		20
Silver, Total	ND	0.05	0.04730	95		0.04657	93		75-125	2		20
Sodium, Total	892.	10	513	**0**	Q	492	**0**	Q	75-125	4		20
Thallium, Total	0.00096J	0.12	0.1272	106		0.1244	104		75-125	2		20
Vanadium, Total	ND	0.5	0.4736	95		0.4518	90		75-125	5		20

Matrix Spike Analysis
Batch Quality Control

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1568516-3 WG1568516-4 QC Sample: L2159074-01 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.4582	92	0.4478	90	75-125	2	20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1568517-3 WG1568517-4 QC Sample: L2159074-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00461	92	0.00459	92	75-125	0	20

Project Name: SHERIDAN
Project Number: Not Specified

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2159421
Report Date: 11/15/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1568516-6 QC Sample: L2159074-01 Client ID: DUP Sample						
Barium, Total	0.1905	0.1916	mg/l	1		20
Calcium, Total	73.2	74.4	mg/l	2		20
Iron, Total	2.28	2.30	mg/l	1		20
Magnesium, Total	27.8	27.0	mg/l	3		20
Manganese, Total	1.201	1.273	mg/l	6		20
Potassium, Total	5.96	6.11	mg/l	3		20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1568516-6 QC Sample: L2159074-01 Client ID: DUP Sample						
Sodium, Total	892.	908.	mg/l	2		20

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159421-01A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-01B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-01C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-01D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		AL-6020T-PPB(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CO-6020T-PPB(180),CD-6020T-PPB(180),CR-6020T-PPB(180),CA-6020T(180),HG-T-PPB(28),CR-6020T(180),BE-6020T-PPB(180),K-6020T(180),NI-6020T(180),SB-6020T-PPB(180),CU-6020T(180),CA-6020T-PPB(180),NA-6020T(180),ZN-6020T(180),CU-6020T-PPB(180),TL-6020T-PPB(180),PB-6020T(180),BA-6020T-PPB(180),AS-6020T-PPB(180),K-6020T-PPB(180),AG-6020T-PPB(180),MN-6020T(180),BE-6020T(180),PB-6020T-PPB(180),AS-6020T(180),FE-6020T-PPB(180),SB-6020T(180),V-6020T(180),ZN-6020T-PPB(180),HG-T(28),AL-6020T(180),NA-6020T-PPB(180),MG-6020T(180),AG-6020T(180),CD-6020T(180),NI-6020T-PPB(180),MG-6020T-PPB(180),CO-6020T(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2159421-01E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-01F	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-01G	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159421-01H	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159421-02A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-02B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-02C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159421-02D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		AL-6020T-PPB(180),CO-6020T-PPB(180),SB-6020T-PPB(180),CR-6020T-PPB(180),HG-T-PPB(28),BE-6020T-PPB(180),CD-6020T-PPB(180),CA-6020T-PPB(180),CU-6020T-PPB(180),BA-6020T-PPB(180),TL-6020T-PPB(180),AS-6020T-PPB(180),PB-6020T-PPB(180),AG-6020T-PPB(180),K-6020T-PPB(180),FE-6020T-PPB(180),NI-6020T-PPB(180),ZN-6020T-PPB(180),NA-6020T-PPB(180),MG-6020T-PPB(180),V-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180)
L2159421-02E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-02F	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-02G	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		HOLD-537(14)
L2159421-02H	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		HOLD-537(14)
L2159421-03A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-03B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-03C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-03D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),SB-6020T-PPB(180),CD-6020T-PPB(180),HG-T-PPB(28),BE-6020T-PPB(180),CR-6020T-PPB(180),CU-6020T-PPB(180),CA-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),K-6020T-PPB(180),AS-6020T-PPB(180),AG-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),NI-6020T-PPB(180),ZN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180),MN-6020T-PPB(180)
L2159421-03E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-03F	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-03G	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		HOLD-537(14)
L2159421-03H	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		HOLD-537(14)
L2159421-04A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-04B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-04C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159421-04D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		AL-6020T-PPB(180),CO-6020T-PPB(180),CD-6020T-PPB(180),HG-T-PPB(28),SB-6020T-PPB(180),CR-6020T-PPB(180),BE-6020T-PPB(180),CU-6020T-PPB(180),CA-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),PB-6020T-PPB(180),AS-6020T-PPB(180),AG-6020T-PPB(180),K-6020T-PPB(180),FE-6020T-PPB(180),ZN-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),NI-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2159421-04E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-04F	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-04G	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		HOLD-537(14)
L2159421-04H	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		HOLD-537(14)
L2159421-05A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-05B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-05C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-05D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),CR-6020T-PPB(180),CD-6020T-PPB(180),HG-T-PPB(28),BE-6020T-PPB(180),SB-6020T-PPB(180),CU-6020T-PPB(180),CA-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),AS-6020T-PPB(180),PB-6020T-PPB(180),AG-6020T-PPB(180),K-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),ZN-6020T-PPB(180),NA-6020T-PPB(180),NI-6020T-PPB(180),MN-6020T-PPB(180),V-6020T-PPB(180),SE-6020T-PPB(180)
L2159421-05E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-05F	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-05G	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159421-05H	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2159421-06A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-06B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-06C	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: SHERIDAN
Project Number: Not Specified

Lab Number: L2159421
Report Date: 11/15/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159421-06D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		CO-6020T-PPB(180),AL-6020T-PPB(180),CD-6020T-PPB(180),HG-T-PPB(28),CR-6020T-PPB(180),BE-6020T-PPB(180),SB-6020T-PPB(180),CA-6020T-PPB(180),CU-6020T-PPB(180),TL-6020T-PPB(180),BA-6020T-PPB(180),K-6020T-PPB(180),AG-6020T-PPB(180),PB-6020T-PPB(180),AS-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NI-6020T-PPB(180),ZN-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180),SE-6020T-PPB(180),V-6020T-PPB(180)
L2159421-06E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-06F	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2159421-06G	Plastic 250ml unpreserved	B	NA		4.4	Y	Absent		HOLD-537(14)
L2159421-06H	2 Plastic Trizma/1 Plastic/1 H20+Trizma	B	NA		4.4	Y	Absent		HOLD-537(14)
L2159421-07A	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)
L2159421-07B	Vial HCl preserved	A	NA		2.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: SHERIDAN
Project Number:

Lab Number: L2159421
Report Date: 11/15/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	SHERIDAN	**Lab Number:**	L2159421
Project Number:	Not Specified	**Report Date:**	11/15/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	SHERIDAN	**Lab Number:**	L2159421
Project Number:	Not Specified	**Report Date:**	11/15/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	SHERIDAN	**Lab Number:**	L2159421
Project Number:	Not Specified	**Report Date:**	11/15/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name: SHERIDAN
Project Number: Not Specified
Lab Number: L2159421
Report Date: 11/15/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 10/29/21

ALPHA Job #: L2159421

Client Information

Client: ECC Horizon
Address: 1 Emery Ave, Unit 2, Randolph, NJ
Phone: 973 989 8010
Fax:
Email:

Project Information

Project Name: Sheridan
Project Location: Bronx, NY
Project #
(Use Project name as Project #) ☐
Project Manager: M Nusbaum
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	SVOC	TAL Metal	PFAS (DEP-10 list)	Total Bottle
59421-01	MW-1	10/28/21	1240	GW	AN	X	X	X	X	
-02	MW-2		1045			X	X	X	X	
-03	MW-3		1330			X	X	X	X	
-04	MW-4		1640			X	X	X	X	
-05	MW-5		1520	GW		X	X	X	X	
-06	FB		0755	FB	AN	X	X	X	X	
-07	TB	10/27/21	—	TB	MD	X				

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	A	P	P				
Preservative	B	A	C	A				

Relinquished By:	Date/Time	Received By:	Date/Time
			10/29/21 9:35
	10/29/21 14:35	Paul Mazzella	10/29/21 16:46
Paul Mazzella	10/29/21 22:07		10/29/21 22:57

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Contract No: EP-W-09-002
WA #: 029-SION-0200

Region 2 RAC2
Remedial Action Contract

Phase I Environmental Site Assessment

1460 and 1480 Sheridan Expressway

Targeted Brownfields Assessment

Bronx, New York

December 21, 2018

CDM Smith

CDM Smith

14 Wall Street, Suite 1702
New York, New York 10005
tel: 212-785-9123
fax: 212-227-1692

December 21, 2018

Ms. Alison Devine
Remedial Project Manager
U.S. Environmental Protection Agency
290 Broadway, 18th Floor
New York, NY 10007-1866

PROJECT: RAC 2, Region 2 Contract No.: EP-W-09-002
Work Assignment: 029-SION-0200

DOCUMENT NO.: 3323-029-03726

SUBJECT: Phase I Environmental Site Assessment
Targeted Brownfields Assessments
1460 and 1480 Sheridan Expressway
Bronx, New York

Dear Ms. Devine:

CDM Federal Programs Corporation (CDM Smith) is pleased to submit the Phase I Environmental Site Assessment conducted at the Targeted Brownfields Assessment 1460 and 1480 Sheridan Expressway in Bronx, New York.

If you have any questions regarding this report, please contact me at your earliest convenience at (212) 377-4527.

Very truly yours,

CDM SMITH FEDERAL PROGRAMS CORPORATION

Brendan MacDonald, P.E., LEED® AP
Site Manager

PSO: BG

Attachment
cc: F. Rosado, EPA Region 2 (letter only)
K. Wheeler, SoBro
K. Imbriano, BRS
A. Nesheiwat, Sustainable Development Inc.
E. Krupka, CDM Smith (electronic copy)
RAC2 Region 2 Document Control

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Acronyms

AAI	All Appropriate Inquires
ACM	asbestos-containing materials
AIRS	Aerometric Information Retrieval System Facility System
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
CBS	chemical bulk storage
CDM Smith	CDM Federal Programs Corporation
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CESQG	conditionally exempt small quantity generator
CFR	Code of Federal Regulations
CORRACTS	Corrective Action Report
DER-10	Division of Environmental Remediation-10 Technical Guidance for Site Investigation and Remediation
ECHO	Enforcement and Compliance History Information
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
FFIS	Federal Facilities Information System
FINDS	Facility Index System
FOIA	Freedom of Information Act
FRS	Facility Registry Services
HVAC	heating, ventilation, and air conditioning
kg	kilogram
LBP	lead-based paint
LQG	large quantity generator
MGP	manufactured gas plant
LTANKS	leaking underground storage tanks
NPL	National Priority List
NonGen	Non Generator
NYCDEP	New York City Department of Environmental Protection
NYCRR	New York Code of Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOL	New York State Department of Labor
NWIS	National Water Information System
PAH	polycyclic aromatic hydrocarbon
PADS	PCB Activity Database
PBS	petroleum bulk storage
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PCS	Permit Compliance System
PID	photoionization detector
PRP	primary responsible party

RCRA	Resource Conservation and Recovery Act of 1976
REC	recognized environmental condition
RES DECL	Restrictive Declarations Listing
SHWS	solid hazardous waste site
SI	site investigation
SIC	standard industrial classification
SoBro	South Bronx Overall Economic Development Corporation
SPDES	State Pollution Discharge Elimination System
SQG	small quantity generator
SVOC	semi-volatile organic compound
SWF/LF	Solid Waste Facility/Landfill
TBA	Targeted Brownfields Assessment
TSD	transporter, storage, and disposal
USDA	U.S. Department of Agriculture
USGS	U.S. Geologic Survey
UST	underground storage tank
VCP	Voluntary Cleanup Program
VOC	volatile organic compound

Executive Summary

This report presents the results of the CDM Federal Programs Corporation (CDM Smith) Phase I Environmental Site Assessment (ESA) for the 1460 and 1480 Sheridan Expressway Targeted Brownfields Assessment (TBA) site, herein referred to as the "Site" or "subject properties" located at 1460 and 1480 Sheridan Expressway, Bronx County, New York (Figure 1-1). This Phase I ESA was conducted on behalf of the U.S. Environmental Protection Agency (EPA) in response to a request from the South Bronx Overall Economic Development Corporation (SoBro) (the Grantee), who intends to use the subject properties for redevelopment to provide public access to the waterfront and improve quality of life for surrounding residents.

According to local tax records, the parcel numbers for the subject properties are Block 3017, Lot 74 (1460 Sheridan Expressway) and Block 3017, Lot 29 (1480 Sheridan Expressway). The approximately 3-acre properties are owned by PDJ Simone Realty Co. The subject properties at 1460 and 1480 Sheridan Expressway were historically used for industrial and commercial purposes and operated for a variety of businesses since the late 1890s, including as an automotive repair and demolition facility, concrete slab manufacturing facility, iron yard, coal and lumber yard, and a railway company. 1460 Sheridan Expressway is currently used as an automotive parts shop. 1480 Sheridan Expressway is a mixed-use lot, predominantly used as a long- and short-term parking yard, with several open garage spaces and an office area. Both properties are currently zoned for industrial use. The subject properties are situated in a mixed residential/commercial/industrial area in the South Bronx and is secured with metal fencing.

This Phase I ESA was conducted in general accordance with the following:

- EPA All Appropriate Inquires (AAI) Rule (40 Code of Federal Regulations [CFR] Part 312)
- American Society for Testing and Materials (ASTM) International Standard E1527-13 (Standard Practice for ESAs: Phase I ESA Process)
- New York Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation-10 (DER-10) Technical Guidance for Site Investigation and Remediation dated May 2010
- Title 6 of the New York Code of Rules and Regulations Part 375 Remediation Programs (6 NYCRR Part 375)

Based on CDM Smith's review of file information, databases, and historical records review and reconnaissance, the following recognized environmental conditions (RECs) are identified:

REC 1 – Historical Use: 1460 Sheridan Expressway has been used as a coal and lumber yard, railway company, including a powerhouse, garage, bus repair, and paint shop. 1480 Sheridan Expressway has been used as an iron yard, concrete manufacturing, and automotive maintenance and demolition facility since the 1890s. Based on CDM Smith's review of historical aerial photographs, Sanborn maps, and other documents, the adjacent properties to the subject properties have been used in similar industrial settings since the 1950s. Hazardous materials

used or generated by the subject properties would likely have included solvents, cleaners, waste oil, coolants, and petroleum products.

REC 2 – Underground and Aboveground Storage Tanks: Three gasoline/diesel fuel underground storage tanks (USTs) were reportedly closed and removed from 1480 Sheridan Expressway. No documentation of post excavation sampling during the removal activities or confirmation of absence of contamination at these locations was available at the time of this Phase I ESA. Additionally, four aboveground storage tanks (ASTS), including two 1,000-gallon diesel and waste oil and two 249-gallon gasoline tanks, located at 1480 Sheridan Expressway were reportedly closed in March 2014. A 1,000-diesel fuel AST was reportedly removed from the site in 2017.

REC 3 – Drainage: Hazardous materials used at automotive repair and demolition shops may have been removed off-site at 1480 Sheridan Expressway using the drainage system. Trench drains were observed near the former location of a UST. Interior floor drainage systems and external storm drains located near historic car maintenance areas of the property are additional potential locations for contamination associated with former site operations.

REC 4 – Hydraulic Lifts: An in-ground hydraulic lift was observed in the garage warehouse at 1480 Sheridan Expressway. Hydraulic oil and fluids used to operate the hydraulic lift are a potential source of contamination at the site through leaks in lines or hoses.

REC 5 – Vapor Intrusion: Potential vapor intrusion issues associated with historical operations and neighboring commercial and light industrial properties may be present at the site.

REC 6 – Staining and Potentially Hazardous Material/Debris: Stained concrete was observed at 1480 Sheridan Expressway. Reddish fluid was observed to be spilled on the concrete. This may be indicative of contamination related to site operations or poor housekeeping practices. Empty and partially full containers, spray paint cans, cleaning agents, and 5-gallon buckets were observed throughout the subject property. Debris piles were scattered in the rear southern portion of the property.

REC 7 – Potential Off-site Contamination: Several upgradient or nearby properties were identified for their potential to impact groundwater on the subject properties. Upgradient or nearby properties and their respective distance from the subject properties include:

- Bethel Cleaners (0.365 miles), which is listed as a New York Solid Hazardous Waste Site (NY SHWS) (site with on-site sources of volatile organic compounds [VOCs] impacting soil and indoor air). Impacts to groundwater could not be assessed due to drilling refusal; however, groundwater is not used as a drinking water source in the area. The primary contaminants of concern in soil are tetrachloroethene (PCE), xylene, and 1,2,4-trimethylbenzene.
- 1544 Boone Avenue (0.071 miles), which is listed as a Voluntary Cleanup Program (VCP) site with contaminated soil, groundwater, and soil vapor on-site. Approximately 10 historic USTs were on-site. Soil sample results detected several VOCs, semi-volatile organic compounds (SVOCs), and heavy materials at concentrations exceeding regulatory

standards. A total of 3,777 tons of petroleum-impacted soil and 96,000 gallons of petroleum-impacted groundwater have been removed from the site.

- 1560 Boone Avenue (0.113 miles), which is listed as a VCP site with historical uses as a contractor's shop, automotive repair shop, machine shop, and metal door manufacturing shop. Contaminants of concern at this site include VOCs, SVOCs, copper, lead, and mercury.
- 1125 Whitlock Avenue (0.355 miles), which is listed as a VCP site previously occupied by a plastics manufacturer and used as storage with small automotive repair shops. Historical data show previous uses of the parcel as a gas station and automotive garages. VOCs, SVOCs, and metals were detected at concentrations exceeding cleanup objectives.
- 1825 Boston Road (0.492 miles), which is listed as a VCP site previously used as a transit rail car and bus maintenance and repair facility for approximately 100 years. Two 5,000-gallon tanks and one 10,000-gallon tank was removed from the site in the 1990s. Based on historical use, petroleum products and solvents are among potential contaminants at this site.
- 1095 Southern Boulevard (0.430 miles), which is listed as a New York Brownfields site. Historically, this parcel has been used for commercial businesses, including a dry cleaning facility. Known or suspected contaminants include chlorinated solvents, PCE, trichloroethylene, 1,2-dichloroethene, chlorinated VOCs, and metals. Soil, groundwater, and soil vapor at this property have shown significant concentrations of the contaminants of concern.
- Historical auto stations within 0.125 miles of the subject properties represent a high potential for impacting the site's groundwater. Expressway service station (0.043 miles), J & L Auto Service (0.047 miles), and Esteven Service Station (0.121 miles) have auto-related operations dating to the 1960s. These three sites are a potential source of off-site contamination to the subject properties.

Should environmental investigations that identify contamination that cannot be traced to an on-site source be performed at the subject properties, these sites should be evaluated as primary responsible parties.

Other Items of Environmental Concern:

- ***Lead-Based Paint (LBP):*** Structures located at 1460 and 1480 Sheridan Expressway was constructed prior to 1977. Therefore, the buildings have a significant potential for LBP and/or LBP dust. Materials removed as part of property redevelopment should be characterized for lead prior to handling and disposal.
- ***Asbestos-Containing Materials (ACMs):*** The manufacturing of most ACMs was banned in 1979. Prior to this time, asbestos was a common constituent of numerous building materials such as floor and ceiling tiles, mastic, caulking, pipe insulation, window glazing, roofing materials, and exterior siding. No suspected ACMs were observed during CDM Smith's reconnaissance. However, based on the age of buildings on the subject properties, materials removed as part of property redevelopment may contain ACMs. Materials

removed as part of property redevelopment should be characterized for asbestos prior to handling and disposal.

- ***Light Ballasts:*** Structures at 1460 and 1480 Sheridan Expressway were observed to have fluorescent light ballasts in place. Prior to 1979, polychlorinated biphenyl (PCB)-containing oils were commonly used in transformers and fluorescent light ballasts, after which these uses were banned. Proper handling and disposal of the light ballasts should be used during property redevelopment.

Based on the presence of RECs, a Phase II site investigation (SI) is recommended at the subject properties to confirm the presence of hazardous materials. The following components should be considered for the Phase II SI:

- Geophysical survey to identify the presence of any potential USTs, vaults, buried drums/containers, underground piping, buried building foundations, buried utilities, or subsurface anomalies at and around the properties.
- Surface and subsurface soil sampling to investigate the potential for soil contamination. During soil sampling, soil screening, using a photoionization detector (PID) to assist in site assessment and selection of soil sampling intervals, should be performed.
- Groundwater sampling via temporary well point or screen point sampling to determine groundwater flow and potential for groundwater contamination.
- Soil vapor sampling to investigate potential vapor intrusion.

Analysis should include VOCs, SVOCs, polycyclic aromatic hydrocarbons (PAHs), PCBs, petroleum hydrocarbons, and metals. Soil analytical results must be compared to NYSDEC Subpart 375-6 restricted residential use soil cleanup objectives, and groundwater analytical results to NYSDEC Class GA Groundwater Criteria.

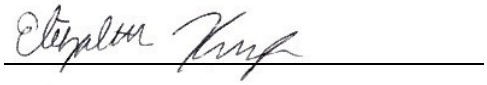
Based on the properties' historical operations, concern for exposure could exist during future earthwork and health and safety precautions should be considered. Construction worker and subject property worker use scenarios should be considered during any redevelopment plan. It is recommended that the owner, or future use developer, enlist a professional engineer to develop a health and safety plan, construction contingency plans, and a soils management plan to safely and appropriately remove (or control) potentially impacted materials. During any future construction activities at the property, it is recommended that all waste and excavated materials be tested, appropriately managed, and properly disposed.

Considering the lack of information regarding the current state of the subsurface materials beneath the subject properties and the known impacts of nearby properties, the quality of soils may not meet residential criteria and may preclude portions of the subject properties from certain future uses.

Declaration of Environmental Professional

I declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental Professional as defined in § 312.10 of this part.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



12/21/2018

Elizabeth Krupka
Environmental Professional

Date

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Section 1
Introduction

This report presents the results of the CDM Federal Programs Corporation (CDM Smith) Phase I Environmental Site Assessment (ESA) for the 1460 and 1480 Sheridan Expressway Targeted Brownfields Assessment (TBA) site, herein referred to as the "Sites" or "subject properties" located at 1460 and 1480 Sheridan Expressway in Crotona Park East/West Farms, Bronx County, New York (Figure 1-1). This Phase I ESA was conducted on behalf of the U.S. Environmental Protection Agency (EPA) in response to a request from the South Bronx Overall Economic Development Corporation (SoBro) (the Grantee), who intends to use the subject properties for city redevelopment to provide public access to the waterfront and improve quality of life for surrounding residents. Current plans for the subject properties include mixed-use residential buildings with ground floor commercial spaces.

The subject properties are surrounded by a mix of residential, commercial, and industrial properties. According to New York City Department of Finance tax maps, the subject properties are listed as Block 3017, Lot 74 (1460 Sheridan Expressway) and Block 3017, Lot 29 (1480 Sheridan Expressway). The subject properties are approximately 3 acres combined and are owned by PDJ Simone Realty Co. 1460 Sheridan Expressway is currently used as an automotive parts shop. 1480 Sheridan Expressway is a mixed-use lot, predominantly used as a long- and short-term parking yard, with several open garage spaces and an office area. Both properties are currently zoned for industrial use.

1.1 Purpose and Objectives

The purpose of this Phase I ESA is to identify the presence of recognized environmental conditions (RECs) at the subject properties and to determine if a site investigation (SI) is needed. RECs refer to the presence or likely presence of any hazardous substances or petroleum products under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the properties or into the ground, groundwater, or surface water of the properties.

This Phase I ESA was conducted in general accordance with the following:

- EPA All Appropriate Inquires (AAI) Rule (40 Code of Federal Regulations [CFR] Part 312)
- American Society for Testing and Materials (ASTM) International Standard E1527-13 (Standard Practice for ESAs: Phase I ESA Process)
- New York Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation-10 (DER-10) Technical Guidance for Site Investigation and Remediation dated May 2010
- Title 6 of the New York Code of Rules and Regulations Part 375 Remediation Programs (6 NYCRR Part 375)

The assessment procedures used to conduct this Phase I ESA included a review of file information, a request and review of government records, interviews, and reconnaissance of the subject properties. This report summarizes these procedures and the subsequent conclusions developed by CDM Smith.

1.2 Scope of Work

Upon receipt of the notice to proceed, CDM Smith arranged a conference call with EPA and SoBro officials to discuss the purpose of the Phase I ESA and to gather background information on the current and historical use of the subject properties. CDM Smith also initiated a database/records search of the subject properties and requested copies of all available property records from EPA and City of New York. The database/records search and user-provided information were used to develop background information, identify points of contact that could provide access to the properties, and provide working knowledge of the properties' history. CDM Smith has based its conclusions on the above sources and on observations made during reconnaissance. The following paragraph summarizes specific sources used to acquire information for this report.

CDM Smith performed reconnaissance of the subject properties on October 26, 2018, to obtain information on current conditions of the immediate and surrounding areas. The reconnaissance was performed by Elizabeth Krupka and Emily Wong of CDM Smith. Ms. Krupka and Ms. Wong were accompanied by Kathryn Wheeler (SoBro point of contact) and Al Nesheiwat (owner's representative). Copies of the reconnaissance photographs are provided in Appendix A.

CDM Smith reviewed the results of the Environmental Data Resources, Inc. (EDR) search of state and federal environmental databases to meet the search requirements of EPA AAI and ASTM E 1527-13 for the evaluation of environmental risk associated with a parcel of real estate. The EDR Radius Report (EDR 2018g) identifies databases including the following:

- Federal National Priority List (NPL) Sites existing near the Sites
- Any past or current hazardous waste disposal on the subject properties
- Reported petroleum or hazardous waste releases
- Listed hazardous waste generation, transportation, storage, or disposal facilities
- Listed solid waste disposal facilities
- Reported leaking underground storage tanks (USTs)
- Listed USTs

EDR also conducted an environmental lien search for the subject properties. A copy of the environmental lien search is provided in Appendix B. Records requests were submitted to NYSDEC, New York State Department of Health (NYSDOH), New York State Department of Labor (NYSDOL), New York State Department of State, New York City Department of Environmental Protection (NYCDEP), and EPA Region 2. Additionally, CDM Smith conducted internet searches for information relevant to the subject properties. A copy of information obtained through record

requests and internet searches for the subject properties is provided in Appendix C. The EDR radius report is provided in Appendix D.

Aerial photographs of the subject properties that were provided by EDR and were reviewed as part of this Phase I are included in Appendix E. Historical 15- and 7.5-minute series topographic maps provided by EDR were reviewed for the subject properties and are included in Appendix F. Sanborn maps provided by EDR were reviewed for the subject properties and are included in Appendix G. A city directories report prepared by EDR and reviewed for the subject properties is included in Appendix H. A building permit report prepared by EDR and reviewed for the subject properties is provided in Appendix I.

Phase I reports were previously completed in 2017 for each of the subject properties. Copies of the reports are provided in Appendix J and Appendix K.

1.3 Limitations and Statement of Use

The results of this Phase I ESA are based on a review of information obtained during reconnaissance, interviews, historical records review, and review of acquired environmental regulatory agency documents and property information obtained by CDM Smith. Furthermore, this assessment has been prepared and conducted under the guidance of an environmental professional as defined in EPA 40 CFR Part 312, Standards and Practices for AAI. The conclusions therefore represent CDM Smith's professional opinions based on these sources of information.

A Phase I ESA is not a comprehensive subject property characterization or regulatory compliance audit and should not be construed as such. CDM Smith cannot represent that the subject properties contain no hazardous or toxic materials, products, or other latent conditions beyond that observed by CDM Smith during the Phase I ESA. The performance of this Phase I ESA is intended to reduce but not eliminate uncertainty regarding the potential for RECs in connection with the subject properties. Further, the services herein shall not be construed, designed, or intended to be relied upon as legal interpretation or advice. This Phase I ESA report for the TBA site located at 1460 and 1480 Sheridan Expressway was prepared for the exclusive use of EPA. It is not intended for use by any other parties. Use of this report by any other party is at the party's sole risk without liability to CDM Smith. This Phase I ESA does not formally cover issues regarded as business environmental risk. Business environmental risk is a risk associated with the parcel that is beyond the scope of a standard ASTM Phase I ESA but which may be prudent to evaluate as a part of the Phase I ESA. The ASTM standard for Phase I ESAs was originally designed to invoke the innocent landowner defense to Superfund liability. However, many clients use the Phase I ESA for a different purpose, that is to evaluate a variety of "environmental" risks associated with a property transaction. This is why the term "business environmental risk" has now made its appearance in the standard. Examples of business environmental risk include:

- Asbestos
- Lead-based Paint
- Radon
- Regulatory Compliance

- Cultural and Historical Resources
- Industrial Hygiene
- Health and Safety
- Ecological Resources
- Wetlands Delineation
- Endangered Species
- Indoor Air Quality
- Biological Agents
- High Voltage Power Lines
- Lead in Drinking Water
- Mold

The ASTM standard recommends that the need for consideration of specific business environmental risks is determined and agreed upon by the client and the consultant before conducting the Phase I ESA.

As per ASTM E1527-13, data gaps are defined as "a lack of or inability to obtain information required by ASTM E-1527-13 despite good faith efforts by the environmental professional to gather such information." The Phase I ESA performed for the subject properties is considered complete and does not include data gaps.

1.4 Previous Environmental Investigations

The following reports were available for review:

- LCS Inc. *Phase I Environmental Assessment Report: 1460 Sheridan Expressway*. October 2017.
- Team Environmental Consultants, Inc. *Phase I Environmental Assessment Report: 1480 Sheridan Expressway*. May 2017.

The ESAs were conducted at the request of the property owner to identify RECs on-site. The Phase I reports identified potential or existing environmental contamination based on historical and background information at the subject properties and designated RECs. The RECs identified for 1460 Sheridan Expressway include:

- Historical use of the subject properties and their adjacent lots as a railway powerhouse, bus repair and paint shop, ironwork operations facility, and auto parts shop.
- Spills and/or removals of petroleum aboveground storage tanks (ASTs) and USTs on-site and directly adjacent to the subject properties.

- Adjacent properties of potential environmental concern.

The RECs identified for 1480 Sheridan Expressway include:

- Potentially significant residual soil and groundwater quality contamination issues associated with on-site fill materials and historical property use as a coal storage yard, concrete slab manufacturing, and vehicle dismantling operations.
- Spills and/or removals of ASTs and USTs on-site and directly adjacent to the subject properties.
- Interior floor drainage structures, exterior storm drainage systems, and a reported on-site oil/water separator allegedly discharging into the Bronx River.
- Potential vapor intrusion issues with historical site use and presence of nearby commercial and light industrial properties.

1.5 Qualifications of Environmental Professionals

Principal Environmental Professional:	Elizabeth Krupka, ENV SP
Professional Experience	16 Years
Education:	MPH, Environmental and Occupational Health, 2018; MS, Environmental Science, 2004; and BS, Environmental Science, 2001, Rutgers University
Project Role:	Environmental Professional
Principal Technical Review:	Jessica Beattie, P.G., ENV SP
Professional Experience:	21 Years
Education:	ME, Environmental Engineering Stevens Institute of Technology, 2004 and BA, Geological Science, SUNY Geneseo, 1997
Project Role:	Technical Review

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Section 2
Project Description

2.1 Project Location

The subject properties are located at 1460 and 1480 Sheridan Expressway, Bronx, New York. The sites are bounded on the west by Sheridan Expressway and are bounded on the east by the Bronx River. Bronx County was first settled in the 1600s and was incorporated into New York City as one of five boroughs beginning in 1874. It is approximately 42 square miles. As part of a large metropolitan area, the Bronx is composed of a wide variety of land use, including residential properties, commercial businesses, and industrial settings. It is bordered to the north by Westchester County and to the south by Manhattan. It is separated from New Jersey on the west by the Hudson River and separated from Queens on the east by the East River.

2.2 Site Conditions and Current Uses

The subject properties are collectively approximately 3 acres and are currently owned by PDJ Simone Realty Co. 1460 Sheridan Expressway (0.94 acres) is currently an automotive parts shop, Auto Yard Auto Parts, and occupies a large 14,000-square-foot building. The newly remodeled two-story building contains office space and is attached to a large warehouse. 1480 Sheridan Expressway (1.93 acres) is currently used as a long- and short-term parking yard, with five garage buildings and an office area. The subject properties are currently designated for industrial use and are secured with metal gates, fencing, and wiring. Unused construction equipment and materials are found in the rear of the site. The garage buildings on-site exhibit some damage, including chipped paint, damaged walls, and rusted metal. Stains, likely from petroleum products, can be seen on concrete across the lot.

Surface conditions of the subject properties are shown on Figure 1-1, and site photographs are provided in Appendix A.

2.3 Past Uses of the Subject Properties

Historical maps and documentation indicate that the subject properties were occupied by commercial and industrial businesses dating to the 1890s. Based on this information, the subject properties have been occupied by the following:

1460 Sheridan Expressway		
Occupant Name	**Description**	**Dates**
Unknown	Coal and wood yard	1893
Union Railway Company	Coal yard	1903
Union Railway Company	Garage and store with oil and paints storage on-site	1915
Third Avenue Railway System & Surface Transportation Corporation	Paint shop, storage, bus repair shop, blacksmith shop, welding	1950
Unknown	Iron yard	1970s–1980s

1460 Sheridan Expressway		
Occupant Name	**Description**	**Dates**
Belco Steel Corp.	Iron yard	1980s–2005
Hunts Point Auto Wreckers	Iron yard, automotive demolition	2005

1480 Sheridan Expressway		
Occupant Name	**Description**	**Dates**
Unknown	Coal and lumber yard	1896
Unknown	Coal yard	1901
Olin J. Stephens Coal & Wood Yard	Coal and wood yard	1915
Flexicore Co.	Concrete slab manufacturing with shop and shed	1950
Gorbetta Construction Co., Inc.	Contractors yard with shop and storage	1977–1978
Unknown	Contractors yard with shop and storage	1979–2007

2.4 Current and Past Uses of Surrounding Properties

The subject properties are located along Sheridan Expressway in the South Bronx. They are bounded to the east by Sheridan Expressway and to the west by the Bronx River. Historical use of the properties surrounding the subject properties have been predominantly commercial and industrial businesses, including laundromats, steel storage, and welding companies. Current uses of lots immediately adjacent to the subject properties include a hotel and automotive junk and repair shops. As part of a large metropolitan city, residential houses, apartment buildings, and other commercial properties quickly developed in the neighborhood where the subject properties are located, beginning in the late 1800s. The local area continues to be improved with schools, new housing, and a variety of businesses.

Section 3
Environmental Setting

3.1 Physical Setting

The 2013 Central Park and Flushing 7.5-minute series topographic map (EDR 2018f) shows the subject properties situated at an elevation of approximately 8 feet above mean sea level, with a slight slope east toward the Bronx River. The subject properties immediately border the Bronx River along the eastern property boundary and are a part of the Long Island Sound Drainage Basin. The Harlem River is located approximately 2.5 miles west of the subject properties. A copy of the Central Park and Flushing 7.5-minute series topographic map is provided as Figure 3-1.

3.2 Soil

The U.S. Department of Agriculture (USDA) Soil Conservation Service leads the National Cooperative Soil Survey and is responsible for collecting, storing, maintaining, and distributing soil survey information for privately owned lands in the U.S. A custom soil map was generated using the USDA Natural Resource Conservation Service WebSoil survey website on October 29, 2018.

The subject properties are identified as being on 100 percent urban land. The soil surface texture and hydrologic group are not identified.

3.3 Geologic Conditions

The EDR radius report identifies the rock stratigraphic unit as classified as being Paleozoic Era, Ordovician system, and Middle Ordovician (Mohawkian) series. Subordinate soils that may appear in the vicinity of the subject properties include silt loam, loamy sand, sandy loam, and fine sandy loam. (See Appendix D, A-4.) According to the *Bedrock and Engineering Geologic Maps of Bronx County and Parts of New York and Queens Counties, New Yor*k (USGS 1992) Hartland Formation (Middle Ordovician to Lower Cambrian), which consists of gray and medium-gray thinly laminated and fine-grained muscovite-biotite-quartz schist with minor garnet; white to pinkish white fine to medium-grained gneissic quartz-microcline-muscovite-biotite-plagioclase granite with minor garnet, dark greenish-black quartz-biotite-hornblende amphibolite with some white and pink granite pegmatite; and gray unevenly foliated sillimanite-plagioclase-muscovite-biotite-microcline-quartz gneissic schist with minor garnet and mica-feldspar.

3.4 Hydrogeologic Conditions

CDM Smith reviewed the well search information provided by EDR (EDR 2018g), which reported that three U.S. Geological Survey (USGS) wells within 1 mile of the subject properties. Hydrogeologic information obtained through the wells' installation can be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, when

downgradient sites might be impacted. Groundwater at the subject properties is expected to flow east toward the Bronx River. The subject properties are located within the 100-year floodplain.

There are three wells located within one-half mile of the subject properties, and no public supply water wells are within 1 mile. As part of the USGS program for disseminating water data within USGS, to USGS cooperators, and to the general public, the USGS maintains a distributed network of computers and fileservers for the acquisition, processing, review, and long-term storage of water data. These water data are collected at over 1.5 million sites around the country and at some border and territorial sites. This distributed network of computers is called the National Water Information System (NWIS). Details provided for each USGS well located within 1 mile of the subject properties are presented below.

Well ID	Monitor Location	Site Type	Aquifer	Well Depth (feet)	Hole Depth (feet)	Groundwater Data Provided
USGS40000833952	B51	Well	Not Reported	350	Not Reported	No
USGS40000834130	B76.1	Well	New England crystalline-rock	20	80	No
USGS40000833763	B55	Well	Not Reported	210	69	No

Section 4

User Provided Information

4.1 Environmental Liens or Activity and Use Limitations

An environmental LienSearch report (EDR 2018d) for the subject properties was prepared by EDR for CDM Smith. The EDR Environmental LienSearch Report includes search results of available current land title records for environmental cleanup liens and other activity use limitations, including engineering and institutional controls. No environmental liens or other activity and use limitations were identified for the subject properties. The Environmental LienSearch Report is provided as Appendix B.

4.2 Specialized Knowledge

Neither EPA nor SoBro has specialized knowledge of environmental conditions that currently exist on the subject properties.

4.3 Owner and Occupant Information

The subject properties are currently owned by PDJ Simone Realty Co. New York City Department of Finance records indicate that the property ownership for:

- 1460 Sheridan Expressway was transferred from Hunts Point Auto Wreckers in December 1984. This transfer is recorded in Deed Book 557, Page 384.
- 1480 Sheridan Expressway was transferred from1460 Sheridan Expressway Corp. in 2000. This transfer is recorded in Deed Book 1728, Page 185.

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Section 5
Records Information

5.1 Standard Environmental Records Sources

This section summarizes findings of agency databases that were reviewed to identify facilities that generate, transport, store, or dispose of hazardous materials or wastes on or near the subject properties and to identify sites having or suspected of having soil or groundwater contamination that may impact the subject properties. The EDR report (EDR 2018g), which provides detailed descriptions of each database, summaries of listed sites, and figures with locations and other pertinent information, is included with this report in Appendix D. In addition, public information available from NYSDEC, City of New York, and EPA was searched to identify known contaminated sites in the vicinity of the subject properties. Information obtained from federal, state, and city agencies is provided in Appendix C.

The table below lists the number of federal and state sites listed under the ASTM standard by database within the prescribed search radius with results appearing in the EDR report. The subject properties were not listed in any of the databases searched by EDR. The database findings are summarized in the following table.

Summary of Database Findings

Databases Reviewed	Minimum Search Area	Subject	# of Sites Within Area
Federal Databases			
Corrective Action Report (CORRACTS)	One Mile Radius	0	1
Resource Conservation and Recovery Act of 1976 (RCRA) Large Quality Generator (LQG)	One-fourth Mile Radius	0	1
RCRA – Small Quality Generator (SQG)	One-fourth Mile Radius	0	4
RCRA – Conditionally Exempt Small Quantity Generator (CESQG)	One-fourth Mile Radius	1	6
State and Local Records Databases			
New York Solid Hazardous Waste Site (NY SHWS)	One Mile Radius	0	1
New York Solid Waste Facilities/Landfill Sites (NY SWF/LF)	One-Half Mile Radius	1	5
Leaking Storage Tank Incident (LTANKS) Report	One-Half Mile Radius	1	45
NY Underground Storage Tank (UST)	One-fourth Mile Radius	0	17
NY Chemical Bulk Storage Database (CBS)	One-Fourth Mile Radius	1	3

Databases Reviewed	Minimum Search Area	Subject	# of Sites Within Area
NY Chemical Bulk Storage Database (CBS UST)	One-fourth Mile Radius	0	1
NY Aboveground Storage Tank (NY AST)	One-fourth Mile Radius	2	57
NY Chemical Bulk Storage Database (CBS AST)	One-fourth Mile Radius	1	1
Restrictive Declarations Listing (RES DECL)	One-Eighth Mile Radius	0	2
State Registry of Institutional Controls (INST CONTROL)	One-Half Mile Radius	0	1
NY Voluntary Cleanup Program (VCP)	One-Half Mile Radius	0	5
NY Brownfields	One-Half Mile Radius	0	3
Additional Environmental Records			
Registered Recycling Facility List (SWRCY)	One-Half Mile Radius	0	1
New York Spills (NY Spills)	One-Eighth Mile Radius	0	34
Other Ascertainable Records			
Resource Conservation and Recovery Act Non Generators (NonGen)	One-fourth Mile Radius	0	34
NY Drycleaners	One-fourth Mile Radius	0	2
NY Manifest	One-fourth Mile Radius	1	80
NJ Manifest	One-fourth Mile Radius	0	12
Aerometric Information Retrieval System Facility Subsystem (US AIRS)	Target Property	1	1
Facility Index System/Facility Registry System (FINDS)	Target Property	1	1
Enforcement and Compliance History Information (ECHO)	Target Property	1	1
NY E Designation	One-Eighth Mile Radius	0	3
State Pollutant Discharge Elimination System (NY SPDES)	Target Property	1	1
EDR High Risk Historical Records			
EDR Manufactured Gas Plant (MGP)	One Mile Radius	0	1
EDR Historical Auto	One-fourth Mile Radius	0	6

Databases Reviewed	Minimum Search Area	Subject	# of Sites Within Area
EDR Recovered Government Archives			
Recovered Government Archive Solid Waste Facilities List (NY RGA LF)	Target Property	1	1

The following databases were searched but did not identify any sites within the search radius.

Federal Records

- NPL
- Superfund Enterprise Management System (SEMS- Archive)
- Comprehensive Environmental Response, Compensation, and Liability Information System
- (CERCLIS)
- RCRA Transporters, Storage and Disposal (TSDF)
- Federal Institutional Controls/ Engineering Controls Registries (US ENG/INST CONTROLS)
- Federal Emergency Response Notification System (ERNS)
- FEMA (Federal Emergency Management Agency) Underground Storage Tank (FEMA UST)
- US Clandestine Drug Labs (CDL/ HIST CDL)
- US Brownfields
- Torres Martinez Reservation Illegal Dump Site Locations (DEBRIS REGION 9)
- CERLCA Lien Information (LIENS 2)
- Land Use Control Information System (LUCIS)
- Hazardous Material Information Reporting System (HMIRS)

State and Tribal List

- VAPOR REOPENED – Vapor Intrusion Legacy Site List
- INDIAN LUST – Leaking USTs on Indian Land
- TANKS – Storage Tank Facility List
- MOSF UST – Major Oil Storage Facilities Database
- MOSF AST – Major Oil Storage Facilities Database
- MOSF – Major Oil Storage Facility Site Listing
- INDIAN UST – Underground Storage Tanks on Indian Land
- FEMA UST – Underground Storage Tank Listing
- ENG CONTROLS – State Registry of Engineering Controls
- INDIAN VCP – Voluntary Cleanup Priority Listing
- ERP – Environmental Restoration Program Listing
- NY HIST SPILLS – New York Historic Spills

Additional Environmental Records

- DEBRIS REGION 9 – Torres Martinez Reservation Illegal Dump Site Locations
- ODI – Open Dump Inventory
- SWTIRE – Registered Waste Tire Storage & Facility List
- INDIAN ODI – Report on the Status of Open Dumps on Indian Lands
- US CDL – Clandestine Drug Labs
- DEL SHWS – Delisted Registry Sites
- US HIST CDL – National Clandestine Laboratory Register
- HIST AST – Historical Petroleum Bulk Storage Database

- LIENS 2 – CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) Lien Information
- LUCIS – Land Use Control Information System
- LIENS – Spill Liens Information
- HMIRS – Hazardous Materials Information Reporting System
- HSWDS – Hazardous Substance Waste Disposal Site Inventory

Other Ascertainable Federal Records

- Department of Transportation, Office of Pipeline Safety Incident and Accident Data (DOT OPS)
- Department of Defense Sites (DOD)
- Formerly Used Defense Sites (FUDS)
- Superfund (CERCLA) Consent Decree (CONSENT)
- Uranium Mill Tailings Sites (UMTRA)
- Mines Master Index File (MINES)
- Toxic Release Inventory System (TRIS)
- Toxic Substances Control Act (TSCA)
- Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)/Toxic Substances Control Act (TSCA)
- Section 7 Tracking System of the Federal Insecticide, Fungicide and Rodenticide Act (SSTS)
- Integrated Compliance Information System (ICIS)
- PCB Activity Database (PADS)
- Material Licensing Tracking System (MLTS)
- Radiation Information Database (RADINFO)
- RCRA Administrative Action Tracking System (RAATS)
- Coal Combustion Residues Surface Impoundments List (COAL ASH EPA)
- Steam-Electric Plan Operation Data (COAL ASH DOE)
- PCB Transformer Registration Database (PCB TRANSFORMER)
- State Coalition for Remediation of Dry Cleaners (SCRD DRYCLEANERS)
- Record of Decision (ROD)
- NY Hazardous Substance Waste Disposal (HSWD)

Other Ascertainable Federal Records

- EDR Historical Cleaner (EDR Hist Cleaner)

Subject Properties

A summary of the subject properties identified by EDR located within the minimum required search radius from the subject properties is provided in subsequent paragraphs.

According to the EDR report, the subject properties have been identified on several databases with potential for environmental contamination. The databases are provided below.

Subject properties	Address	Databases	Status
LKQ Hunts Point Auto	1460 Sheridan Expressway, Bronx, NY	NY AST	Closed
Hunts Point Auto Warehouse	1480 Sheridan Expressway, Bronx, NY	NY AST	Closed
		NY CBS	Closed
		NY CBS AST	Closed
		NY RGA LF	-
		NY SWF/LF	-
		LTANKS	-
		NY Manifest	-
		RCRA-CESQG	-
		US AIRS	-
		FINDS	-
		ECHO	-
		NY SPDES	-

1460 Sheridan Expressway

The subject property at 1460 Sheridan Expressway is listed as closed on the AST database.

1480 Sheridan Expressway

The subject property at 1480 Sheridan Expressway is listed as closed on the AST, CBS, and CBS AST databases. It is listed on the LTANKS database due to two gas tanks and one diesel tank that were closed and were abandoned at 1480 Sheridan Expressway. Despite the tanks being no longer in use, they were listed as active in the Petroleum Bulk Storage (PBS) database and subjected to the 10-year pressure test by the fire department. All three tanks failed and were subsequently removed off-site.

The subject property at 1480 Sheridan Expressway is listed on the RGA LF and SWF/LF databases. This location listed in the NY Manifest database due to the removal of hazardous material contained within two metal drums in 1992. No further details were provided for any of the three databases. The subject property also appears on the RCRA-CESQG list. Sites on this list produce less than 100 kilogram (kg) of hazardous waste or less than 1 kg of acutely hazardous waste per month.

1480 Sheridan Expressway is listed in the NY SPDES database, which controls point source discharges to groundwaters and surface waters. Documents made available from Freedom of Information Act (FOIA) requests submitted for the subject property reveal two general permits submitted in 2007 and 2013, with plans to discharge runoff into the Bronx River. Discharge monitoring reports dating to 2010 reveal the subject property's participation in the SPDES program. Based on the subject property's ongoing compliance with the program, CDM Smith does not consider it to be a REC at this time. 1480 Sheridan Expressway is listed on the ECHO database, which provides integrated compliance and enforcement information for about 800,000 regulated

facilities nationwide. 1480 Sheridan Expressway is listed on the ECHO database with air, water, and hazardous waste records. Records from the previous 3 years show five violations of the Clean Water Act.

The target property, 1480 Sheridan Expressway, is listed in the US AIRS database under the Stratospheric Ozone Protection dating to 1996; the US AIRS database is a subsystem of AIRS. The AIRS database contains compliance data on air pollution point sources regulated by the EPA and/or state and local regulatory agencies. This information comes from source reports by various stationary sources of air pollution. It is used to track emissions and compliance data from industrial plants. The site was reportedly involved in compliance monitoring and inspected or evaluated. No other details are provided.

1480 Sheridan Expressway is listed on the FINDS database, which contains both facility information and points to another source that contain more detail. The EDR report includes the following FINDS databases in this report: Permit Compliance System (PCS), AIRS, DOCKET (docket management system used to manage and track information on civil judicial enforcement cases for all environmental statutes), Federal Facilities Information System (FFIS), State Environmental Laws and Statutes (STATE), and PADS.

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally defined corrective action core events have occurred for every handler that has had corrective action activity. One CORRACTS site is located within 1 mile of the subject properties. It is located 0.912 miles south-southwest of the subject properties. The site was assigned a low corrective action priority, and human exposures have been verified as under control. Thus, CDM Smith does not consider this site to be a REC.

RCRA Non Generators List: The RCRA NonGen database is the EPA's comprehensive information system, providing access to data supporting RCRA and the Hazardous and Solid Waste Amendments of 1984. The database includes selective information on which sites generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA. The EDR radius report identified 34 sites within one-fourth mile of the subject properties. RCRA Non Generators do not presently generate hazardous waste.

RCRA Generators Lists: The RCRA Info database includes selective information about sites that generate, transport, store, treat, and/or dispose of hazardous waste. Generators are classified by type and quantity of waste generated and are identified as LQGs, SQGs, or CESQGs. LQG area sites that generate over 1,000 kg of hazardous waste or over 1 kg of acutely hazardous waste per month. SQG are sites that generate between 100 kg and 1,000 kg of hazardous waste per month. CESQG are sites that generate less than 100 kg of hazardous waste or less than 1 kg of acutely hazardous waste per month. One LQG, four SQGs, and six CESQGs are located within one-fourth mile of the subject properties.

Sites listed as generators do not necessarily indicate the presence of contamination but rather document the generation of hazardous waste. These sites are not identified on any other database indicative of contamination and are not considered to be RECs.

***State Hazardous Waste Sites*:** The NY SHWS records are the states' equivalent to CERCLIS. These sites may or may not be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified, along with sites where cleanup will be paid for by PRPs. This list includes known contaminated sites in New York, except those associated with the Bureau of Underground Storage Sites. One NY SHWS site was found within 1 mile of the subject properties.

Site	Address	Direction/Distance	Databases
Bethel Cleaners	1120 Westchester Avenue, Bronx, NY	SW ¼ – ½ (0.365 mile)	LQG, NY SHWS, ICIS, FINDS, ECHO, NY MANIFEST

- **Bethel Cleaners:** Bethel Cleaners (Site ID# 513986) is listed as a NY SHWS site with on-site sources of volatile organic compounds (VOCs) impacting soil and indoor air. Impacts to groundwater could not be assessed due to drilling refusal; however, groundwater is not used as a drinking water source in the area. The primary contaminants of concern in soil are PCE, xylene, and 1,2,4-trimethylbenzene. Should environmental investigations that identify contamination that cannot be traced to an on-site source be performed at the subject properties, this active NY SHWS should be evaluated as a PRP.

LTANKS: LTANKS records contain an inventory of reported leaking storage tank incidents from April 1, 1986, through the most recent update. They can be either leaking USTs or leaking ASTs. The causes of the incidents are tank test failures, tank failures, or tank overfills. The EDR radius report identified a total of 44 LTANKS sites within a one-half mile radius of the subject properties. All LTANKS are listed with spill closure dates, indicating that corrective actions were taken. The subject property (1480 Sheridan Expressway) was listed as 1 of the 44 LTANKS sites. Refer to information provided earlier in Section 5 regarding the subject properties for further details.

Site	Address	Direction/Distance	Tank Details
NYS Sanitation	1661 West Farms Road, Bronx NY	N < ⅛ (0.112 mile)	2,000-gallon #2 fuel oil AST tank. Failed test with a dry and wet leak.
PRG Packing	1560 Boone Avenue, Bronx, NY	N < ⅛ (0.113 mile)	10,000-gallon tank AST leaking fuel oil.
Getty Station #329	1441 Westchester Avenue, Bronx, NY	SSE < ⅛ (0.121 mile)	Multiple tank overfills by customers. Leak was detected within inner wall of double walled tank.
Getty Station #26	1185 Bronx River Avenue, Bronx, NY	S < ⅛ (0.124 mile)	Multiple tank overfills by customers and antifreeze spills < 1 gallon tank failure.
Abalon Precision MFG. Corp.	1174 Longfellow Avenue, Bronx, NY	SE ⅛ – ¼ (0.160 mile)	2,000-gallon UST test failure, tank was reportedly removed from site.
Apartment Building	1275 Westchester Avenue, Bronx, NY	SSW ⅛ – ¼ (0.169 mile)	Tank failure, oil and asbestos mixture pumped out from pit. No evidence of spill remained during time of inspection.

Site	Address	Direction/Distance	Tank Details
1150 Longfellow Avenue	1150 Longfellow Avenue, Bronx, NY	SW ⅛ – ¼ (0.172 mile)	Minor spill of #2 fuel oil on driveway.
Garcia Residence	1316 Wheeler Avenue, Bronx, NY	E ⅛ – ¼ (0.173 mile)	275-gallon UST leaking fuel oil in basement of private home. Tank was replaced.
1256 Wheeler Ave	1256 Wheeler Avenue, Bronx, NY	ESE ⅛ – ¼ (0.199 mile)	Product was spilled outside residence and leaked inside by Edgewood Oil without proper cleanup.
Langsan Property	1148-1150 Colgate Avenue, Bronx, NY	SSE ⅛ – ¼ (0.209 mile)	Two 2,000-gallon USTs failed test due to leaky gasket.
1347 Boynton Avenue	1347 Boynton Avenue, Bronx, NY	ENE ⅛ – ¼ (0.238 mile)	Outdoor #2 fuel AST leaking onto neighboring property, spill was remediated.
Apartment Building	1134 West Farms Road, Bronx, NY	SW ¼ – ½ (0.259 mile)	Five gallons on sidewalk and 15 gallons in tank room spilled due to storage tank overfill. Spill was cleaned up.
1210 Elder Avenue	1210 Elder Avenue, Bronx, NY	ESE ¼ – ½ (0.264 mile)	Tank was overfilled due to faulty gauge and spilled onto sidewalk.
1705 Byrant Avenue	1705 Byrant Avenue, Bronx, NY	NNW ¼ – ½ (0.280 mile)	Tank test failure after union on vent line replaced.
1151 E 165 Street	1151 E 165 Street, Bronx, NY	SSW ¼ – ½ (0.285 mile)	Tank was overfilled, and tank opening was repaired to prevent future overflow.
1095 Close Avenue	1095 Close Avenue, Bronx, NY	SSE ¼ – ½ (0.285 mile)	Three 550-gallon tanks and one 1,080-gallon tank failed air pressure tests.
1535 Westchester Avenue	1535 Westchester Avenue, Bronx, NY	ESE ¼ – ½ (0.295 mile)	Tank overfill likely caused by equipment failure; 50 gallons were spilled. Cleanup complete.
Bronxdale Houses	1471-1473 Watson Avenue, Bronx, NY	SSE ¼ – ½ (0.300 mile)	10,000-gallon UST likely spilled during removal in 1998 and contaminated soil.
1075 Longfellow Avenue	1075 Longfellow Avenue, Bronx, NY	SSW ¼ – ½ (0.304 mile)	Test tank failure with visual leaks.
Chase Bank	1536 Westchester Avenue, Bronx, NY	SE ¼ – ½ (0.319 mile)	1,500-gallon UST test failure, tank was abandoned, and fill line was filled with cement.
Madison Square Boys and Girls Club House	1665 Hoe Avenue, Bronx, NY	NW ¼ – ½ (0.321 mile)	Tank was retested and passed.
Archdiocese St. John	985 East 167 Street, Bronx, NY	SW¼ – ½ (0.337 mile)	Cleanup requirements not met, tank test failure.
Con Edison	1213 Ward Avenue, Bronx, NY	ESE ¼ – ½ (0.339 mile)	Tank overfill of #2 fuel oil.
Montebello Fuel Oil	1050 Bronx River Avenue, Bronx, NY	S ¼ – ½ (0.345 mile)	Two 8,000-gallon tank trucks leaking # 2 fuel oil.

Site	Address	Direction/Distance	Tank Details
Bronx River Houses-NYCHA	1575 East 174 Street, Bronx, NY	ENE ¼ – ½ (0.351 mile)	Three 25,000 USTs were replaced with three 17,000 USTs. Contaminated soil and groundwater likely due to underground fuel line failure.
Verizon New York #90201	1106 Hoe Avenue, Bronx, NY	SW ¼ – ½ (0.366 mile)	Generator malfunction caused some fuel to go down the drain. Tank was to be filled with concrete, holes were discovered.
Minford Place and East 172 Street	Minford Place & East 172 Street, Bronx, NY	WNW ¼ – ½ (0.371 mile)	Oil was pumped from an abandoned underground tank, causing oil to spill onto surface.
1080 Wheeler Avenue	1080 Wheeler Avenue, Bronx, NY	SSE ¼ – ½ (0.377 mile)	Approximately 100 gallons of oil leaked onto concrete floor of tank room and courtyard after valve ruptured.
Simchester Realty	1105 Boynton Avenue, Bronx, NY	SE ¼ – ½ (0.400 mile)	Tank was overfilled due to faulty overfill gauge, 5 gallons spilled onto dirt area.
1787 Vyse Avenue	1787 Vyse Avenue, Bronx, NY	N ¼ – ½ (0.405 mile)	Contaminated soil found during tank removal.
137 Strafford Avenue	137 Strafford Avenue, Bronx, NY	E ¼ – ½ (0.413 mile)	A 5,000-gallon tank failed test. High volume leak due to tank failure.
Exxon Mobil	1419 Bruckner Boulevard, Bronx, NY	S ¼ – ½ (0.417 mile)	Approximately 30 gallons of water-gasoline mixture found in sump. Line test failed.
U-Haul	1365 Bruckner Boulevard, Bronx, NY	S ¼ – ½ (0.417 mile)	Twelve 550-gallon gasoline USTs and one 550-gallon fuel oil UST were removed and contaminated soil was found.
1035 Wheeler Avenue	1035 Wheeler Avenue, Bronx, NY	SSE ¼ – ½ (0.423 mile)	Resident ordered too much fuel on 2 occasions, oil was sprayed on outside of private residence and onto concrete, cleanup ensued. Fifty gallons was spilled from truck.
1025 Aldus Street	1025 Aldus Street, Bronx, NY	SSW ¼ -–½ (0.424 mile)	Spill was contained in tank room and cleaned up.
1605 E 174 Street	1605 E 174 Street, Bronx, NY	ENE ¼ – ½ (0.432 mile)	Excavated soil after 30 gallons of # 4 fuel oil was spilled.

Site	Address	Direction/Distance	Tank Details
Urban Home Ownership	1700 Crotona Park East, Bronx, NY	NW ¼ – ½ (0.456 mile)	Tank overfill spill of 15 gallons to sidewalk due to tank driver error.
1326 Morrison Ave	1326 Morrison Avenue, Bronx, NY	E ¼ – ½ (0.458 mile)	Three gallons of fuel spilled in basement.
Amoco	1499 Bruckner Boulevard, Bronx, NY	SSE NW ¼ – ½ (0.462 mile)	Tank test failure.
1057 Ward Avenue	1057 Ward Avenue, Bronx, NY	SE ¼ – ½ (0.476 mile)	Tightness test was conducted, and a dry leak was found in 550-gallon UST.
Getty	1340 Bruckner Boulevard, Bronx, NY	S ¼ – ½ (0.486 mile)	Tank was pulled from abandoned gas station was contamination was found.
Fabco	1052 Southern Boulevard, Bronx, NY	SW ¼ – ½ (0.456 mile)	A few gallons of fuel oil spilled onto sidewalk from a vent line. Cleanup was completed.
1240 Morrison Avenue	1240 Morrison Avenue, Bronx, NY	E ¼ – ½ (0.492 mile)	Tank test failure for 15,000 heating oil UST. Approximately 23 tons of impacted soil was removed.

SWF/LF: SWF/LF records database typically contains an inventory of solid waste disposal facilities or landfills in a particular state. A review of the SWF/LF list, as provided by EDR, has identified four SWF/LF site located within one-half mile of the subject properties. 1480 Sheridan Expressway is listed as a SWF/LF site; refer to information provided earlier in Section 5 regarding the subject properties for further details. All four sites are located upgradient from the subject properties; however, they are not listed on any other database indicative of environmental contamination. Therefore, CDM Smith does not consider these sites to be RECs at this time.

UST*:* USTs refer to facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. USTs are regulated under Subtitle 1 of RCRA. The data provided in the EDR report come from the NYSDEC PBS database. The EDR report identified 17 UST sites within one-fourth mile radius of the subject properties. Five sites have active USTs located upgradient of the subject properties and are summarized below.

Site	Address	Direction/Distance	Tank Details
Global Montello Group	1441 Westchester Avenue, Bronx, NY	SSE <⅛ (0.121 mile)	Tank 001 Contents: Gasoline/ethanol Tank 2001A Contents: Gasoline/ethanol Tank 2001B Contents: Gasoline/ethanol
1150 Colgate Avenue	1150 Colgate Avenue, Bronx, NY	SSE ⅛ – ¼ (0.204 mile)	Tank 001 Contents: #2 fuel oil

Site	Address	Direction/Distance	Tank Details
1148 Colgate Avenue	1148 Colgate Avenue, Bronx, NY	SSE ⅛ – ¼ (0.209 mile)	Tank 001 Contents: #2 fuel oil
1125 Close Avenue	1125 Close Avenue, Bronx, NY	SSE ⅛ – ¼ (0.240 mile)	Tank 01 Contents: Unknown
Murphy Private Sebco	Bryant Avenue East 174 Street, Bronx, NY	NNW ¼ – ½ (0.280 mile)	Tank 1 Contents: #2 fuel oil

CDM Smith reviewed the 17 UST sites identified in the EDR report. None of these sites are listed on the LTANKS or NY Spills database as open cases; as such they are not considered to be RECs.

CBS: The CBS database records registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597 in ASTs with capacities of 185 gallons or greater and/or in USTs of any size. It includes facilities registered (and closed) since the effective date of CBS regulations (July 15, 1988) through the date the request is processed. The subject property (1480 Sheridan Expressway) is listed as a CBS site. Refer to information provided earlier in Section 5 regarding the subject properties for further details. The EDR report identified two additional CBS UST sites located upgradient, within one-fourth mile of the subject properties.

Site	Address	Direction/Distance	Databases
Apex Sales Towing & Leasing, Inc.	1235 Bronx River Ave, Bronx, NY	SSE <⅛ (0.073 mile)	NYC CBS NY Spills NY SPDES
Adhesive Products	1660-1668 Boone Avenue, Bronx, NY	N ⅛ – ¼ (0.171 mile)	NY CBS NY UST NY CBS UST

Adhesive Products (CBS # 2-000246) and Apex Sales Towing (CDB # 2-000425) are closed CBS UST sites as of January 1, 2012. Neither site is considered a REC, as neither is listed on the LTANKS and NY Spills databases.

NY AST*:* AST refers to facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. ASTs are regulated under Subtitle 1 of RCRA. The data provided in the EDR report come from the NYSDEC PBS database. Both subject properties (1460 and 1480 Sheridan Expressway) were listed on the AST database as closed sites. Refer to information provided earlier in Section 5 regarding the subject properties for further details. The EDR report identified an additional 55 upgradient AST sites within one-fourth mile of the subject properties. The remaining 47 upgradient active sites are detailed below.

Site	Address	Direction/Distance	Tank Details
Sheridan Express Auto Repairs Inc.	1476 Sheridan Expressway, Bronx, NY	SSW <⅛ (0.016 mile)	1 Tank – Active Contents: Waste oil/used oil
1040-1052 Edgewater Road	1040-1052 Edgewater Road, Bronx, NY	NW < ⅛ (0.070 mile)	7 Tanks – Active Contents: Lube oil, #2 Fuel Oil, diesel, waste oil/used oil

Site	Address	Direction/Distance	Tank Details
Sheridan Garage Corp.	1040 Freeman Street, Bronx, NY	SSE <⅛ (0.093 mile)	1 Tank – Active Contents: Waste oil/used oil
Public School 66	1001 Jennings Street, Bronx, NY	W <⅛ (0.098 mile)	1 Tank – Active Contents: #2 Fuel oil
MRC 754 E. 161 St HDFC	1504 Longfellow Avenue, Bronx, NY	WNW <⅛ (0.107 mile)	1 Tank – Active Contents: #2 Fuel oil
MRC 754 E. 161 St HDFC	1500 Longfellow Avenue, Bronx, NY	WNW <⅛ (0.107 mile)	1 Tank – Active Contents: #2 Fuel oil
MRC 754 E. 161 St HDFC	1496 Longfellow Avenue, Bronx, NY	WNW <⅛ (0.108 mile)	1 Tank – Active Contents: #2 Fuel oil
DSNY	1661 West Farms Road, Bronx, NY	N <⅛ (0.112 mile)	9 Tanks – Active Contents: Kerosene, other, waste oil/used oil, lube oil, #2 fuel oil
1563 Boone Avenue	1563 Boone Avenue, Bronx, NY	NNW <⅛ (0.115 mile)	1 Tank – Active Contents: Waste oil/used oil
Global Montello Group Corp	1441 Westchester Avenue, Bronx, NY	SSE <⅛ (0.121 mile)	3 Tanks – Active Contents: #2 fuel oil, waste oil/fuel oil, gasoline
P.S. 811	1434 Longfellow Avenue, Bronx, NY	WSW <⅛ (0.123 mile)	5 Tanks – Active Contents: #2 fuel oil, waste oil/fuel oil, gasoline
Tabs La Maquina Auto Repair	1301 Westchester Avenue, Bronx, NY	SSW ⅛ – ¼ (0.134 mile)	1 Tank – Active Contents: Waste oil/used oil
1084-1086 Home Street	1084 Home Street, Bronx, NY	SSW ⅛ – ¼ (0.145 mile)	1 Tank – Active Contents: #6 fuel oil
1084-1086 Home Street	1084 Home Street, Bronx, NY	SSW ⅛ – ¼ (0.145 mile)	1 Tank – Active Contents: #2 fuel oil
1468 Bryant Realty LLC	1468 Bryant Avenue, Bronx, NY	W ⅛ – ¼ (0.157 mile)	1 Tank – Active Contents: #2 fuel oil
1226 Evergreen LLC	1226 Evergreen Avenue, Bronx, NY	SE ⅛ – ¼ (0.164 mile)	1 Tank – Active Contents: #2 fuel oil
Jose R. Lopez DBA/ Jose Auto Repairs	1661 Boone Avenue, Bronx NY	N ⅛ – ¼ (0.169 mile)	1 Tank – Active Contents: waste oil/fuel oil
Bluebird Realty Company	1182 West Farms Road, Bronx, NY	SW ⅛ – 1/4 (0.177 mile)	1 Tank – Active Contents: waste oil/fuel oil
1455 Bryant LLC	1455 Bryant Avenue, Bronx, NY	W ⅛ – ¼ (0.179 mile)	1 Tank – Active Contents: #2 fuel oil
Longfellow Hall LLC	1142 Longfellow Avenue, Bronx, NY	SSE ⅛ – ¼ (0.182 mile)	1 Tank – Active Contents: #2 fuel oil
1160 Colgate Avenue HDFC	1160 Colgate Avenue, Bronx, NY	SSE ⅛ – ¼ (0.183 mile)	1 Tank – Active Contents: #2 fuel oil
1145 Longfellow Avenue	1145 Longfellow Avenue, Bronx, NY	SW ⅛ – ¼ (0.198 mile)	1 Tank – Active Contents: #2 fuel oil
Highwater Tower Corp	995 East 173rd Street, Bronx, NY	NNW ⅛ – ¼ (0.198 mile)	Tank – Active Contents: #2 fuel oil
1152-1156 Colgate Ave	1152-1156 Colgate Avenue, Bronx, NY	SSE ⅛ – ¼ (0.199 mile)	1 Tank – Active Contents: #4 fuel oil

Site	Address	Direction/Distance	Tank Details
Nina Dunn HDFC	1670 Longfellow Avenue, Bronx, NY	S ⅛ – ¼ (0.199 mile)	1 Tank – Active Contents: #2 fuel oil
Felix Aponte/Mercedes Aponte	1227 Wheeler Avenue, Bronx, NY	SE ⅛ – ¼ (0.203 mile)	1 Tank – Active Contents: #2 fuel oil
Mexico Bercerrils Auto Repair Corp.	1255 Westchester Avenue, Bronx, NY	SSW ⅛ – ¼ (0.207 mile)	1 Tank – Active Contents: waste oil/fuel oil
1493-1495 Westchester Ave	1495 Westchester Avenue, Bronx, NY	SE ⅛ – ¼ (0.208 mile)	1 Tank – Active Contents: #2 fuel oil
1131 Longfellow Ave	1131 Longfellow Avenue, Bronx, NY	SW ⅛ – ¼ (0.215 mile)	1 Tank – Active Contents: #2 fuel oil
Public School 50	1550 Vyse Avenue, Bronx, NY	NW ⅛ – ¼ (0.218 mile)	1 Tank – Active Contents: #2 fuel oil
Sanford ND LLC	1142 Bryant Avenue, Bronx, NY	SW ⅛ – ¼ (0.224 mile)	1 Tank – Unregistered Contents: #2 fuel oil
Evergreen Estate HDFC	1165 Evergreen Avenue, Bronx, NY	SSE ⅛ – ¼ (0.224 mile)	1 Tank – Active Contents: #2 fuel oil
Home Street Reality Corp.	1001 Home Street, Bronx, NY	SW ⅛ – ¼ (0.225 mile)	1 Tank – Active Contents: #2 fuel oil
P O M P	1184 Evergreen Avenue, Bronx, NY	SE ⅛ – ¼ (0.225 mile)	1 Tank – Active Contents: #6 fuel oil
Longfellow Ave-HDFS Inc	1690 Longfellow Avenue, Bronx, NY	N ⅛ – ¼ (0.226 mile)	1 Tank – Active Contents: #2 fuel oil
1130-1146 Colgate Ave Assoc	1130-1146 Colgate Avenue, Bronx, NY	SSE ⅛ – ¼ (0.231 mile)	1 Tank – Active Contents: #2 fuel oil
1246 Westchester Ave HDFC	1246 Westchester Avenue, Bronx, NY	SSW ⅛ – ¼ (0.237 miles)	1 Tank – Active Contents: #2 fuel oil
1175 Wheeler Avenue	1175 Wheeler Avenue, Bronx, NY	SE ⅛ – ¼ (0.238 mile)	1 Tank – Active Contents: #6 fuel oil
One More Time Reality Corp	1160 Evergreen Avenue, Bronx, NY	SSE ⅛ – ¼ (0.242 mile)	1 Tank – Active Contents: #6 fuel oil
1213 Elder Avenue	1213 Elder Avenue, Bronx, NY	SE ⅛ – ¼ (0.243 mile)	1 Tank – Active Contents: #2 fuel oil
1120 Bryant Avenue	1120 Bryant Avenue, Bronx, NY	SW ⅛ – ¼ (0.244 mile)	1 Tank – Active Contents: #2 fuel oil
Jesmitas Realty LLC	1209 Elder Avenue, Bronx, NY	SE ⅛ – ¼ (0.246 mile)	1 Tank – Active Contents: #2 fuel oil
Longfellow Ave-HDFC Inc	1700 Longfellow Avenue, Bronx, NY	N ⅛ – ¼ (0.248 mile)	1 Tank – Active Contents: #2 fuel oil
1471-3 Watson Ave	1471-3 Watson Avenue, Bronx, NY	SSE ¼ – ½ (0.300 mile)	1 Tank – Active Contents: #2 fuel oil
1025 Aldus Street	1025 Aldus Street, Bronx, NY	SSW ¼ – ½ (0.424 mile)	1 Tank – Active Contents: #2 fuel oil

CDM Smith reviewed the 47 active upgradient sites listed in the EDR report. None of the sites are listed on the LTANKS or NY Spills database as open cases; as such they are not considered RECs.

NY RES DECL: A restrictive declaration is a covenant running with the land that binds the present and future owners of the property. As a condition of certain special permits, the city planning commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. A review of the NY RES DECL list as provided by EDR has revealed two NY RES DECL sites within 0.125 miles of the subject properties. The two sites are not listed on the LTANKS or NY Spills database as open cases; as such they are not considered RECs.

VCP: The NY VCP enhances private sector cleanup of Brownfields by enabling parties to remediate sites using private funds as opposed to public funds. Through the VCP, responsible parties, developers, local officials, or individuals may work with NYDEP to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment. A review of the NY VCP list revealed five sites within one-half mile of the subject properties. The following five sites were identified as located in close proximity to and upgradient of the subject properties with potential for contamination.

Site	Address	Direction/Distance	Databases
1544 Boone Avenue (Site ID# 15VCP124X)	1544 Boone Avenue, Bronx, NY	NNW <⅛ (0.071 mile)	NY RES DECL NY Spills
1560 Boone Avenue (Site ID# 18CVCP028X)	1560 Boone Avenue, Bronx, NY	N < ⅛ (0.113 mile)	—
1125 Whitlock Avenue (Site ID# 18CVCP033X)	1125 Whitlock Avenue, Bronx, NY	SSW ¼- ½ (0.355 mile)	—
1825 Boston Road	1825 Boston Road, Bronx, NY	N ¼ – ½ (0.492 mile)	—
1815 West Farms Road	1815 West Farms Road Bronx, NY	NNE ¼ – ½ (0.327 mile)	—

- 1544 Boone Avenue was a vacant lot with contaminated soil, groundwater, and soil vapor. Approximately 10 historic USTs were on-site. Several VOCs, semi-volatile organic compounds (SVOCs), and heavy materials were detected in soil samples at concentrations exceeding regulatory standards. Remediation has been completed, with 3,777 tons of petroleum-impacted soil and 96,000 gallons of petroleum-impacted groundwater removed from the site. Additionally, all USTs have been removed. Should environmental investigations that identify contamination that cannot be traced to an on-site source be performed at the subject properties, this VCP site should be evaluated as a PRP.
- 1560 Boone Avenue was a vacant lot with historic uses as a contractor's shop, automotive repair shop, machine shop, and metal door manufacturing shop. Contaminants of concern at this site include VOCs, SVOCs, copper, lead, and mercury. Should environmental investigations that identify contamination that cannot be traced to an on-site source be performed at the subject properties, this VCP site should be evaluated as a PRP.

- 1125 Whitlock Avenue was occupied by a plastics manufacturer and used as storage with small automotive repair shops. Historical data show previous uses of the parcel as a gas station and automotive garages. VOCs, SVOCs, and metals were detected at concentrations exceeding cleanup objectives. Should environmental investigations that identify contamination that cannot be traced to an on-site source be performed at the subject properties, this VCP site should be evaluated as a PRP.

- 1825 Boston Road was a vacant lot that was used previously as a transit rail car and bus maintenance and repair facility for approximately 100 years. Two 5,000-gallon tanks and one 10,000-gallon tank was removed from the site in the 1990s. Based on historical use, petroleum products and solvents are among potential contaminants at this site. Should environmental investigations that identify contamination that cannot be traced to an on-site source be performed at the subject properties, this VCP site should be evaluated as a PRP.

- 1815 West Farms Road was partially undeveloped lot used for miscellaneous storage and office space. Sanborn maps (EDR 2018e) for this parcel show a garage labeled "auto junk" or "auto repair" for approximately 30 years. Moderate levels of SVOCs were detected in soil and petroleum-related VOCs were detected at moderate levels in soil vapor. Groundwater sample results showed exceedances in metals. Disposal of significant amounts of hazardous waste is not suspected at this site.

NY Brownfields: Brownfields are identified as former or current commercial or industrial sites presently vacant or underutilized on which there is suspected to have been a discharge of contamination to the soil or groundwater at concentrations greater than applicable criteria. The EDR report identified three NY Brownfields sites, within one-half mile of the subject properties, summarized below.

- 1095 Southern Boulevard (Site ID# 442053 and 461295) located 0.430 mile southwest from the subject properties. Historically, this parcel has been used for commercial businesses, including a dry cleaning facility. Known or suspected contaminants include chlorinated solvents, PCE, trichloroethylene, 1,2-dichloroethene, chlorinated volatile organic compounds, and metals. Soil, groundwater, and soil vapor at this property have shown significant concentrations of the contaminants of concern. Should environmental investigations that identify contamination that cannot be traced to an on-site source be performed at the subject properties, this Brownfields site should be evaluated as a PRP.

- 1776, 1778, and 1800 Southern Boulevard (Site ID# 402262) is located 0.445 mile north-northwest from the subject properties. Soil, groundwater, and soil vapor at this site have been significantly contaminated with petroleum-related VOCs in excess of NYSDEC remedial objectives and groundwater standards. The source of the contamination was discovered during the removal of four 4,000-gallon USTs related to the site's historical uses as a gas station, car wash, and auto repair wash. Remediation at this property was completed in September 2011; therefore, this Brownfields site is likely to be a PRP for contamination that cannot be traced to an on-site source.

- 1899–1905 West Farms Road (Site ID# 488955) is located 0.480 mile north-northeast from the subject properties. The site was most recently used for construction supply storage and a janitorial supply company for soap and paper product storage, with an outdoor storage area for dumpsters and empty drums. Petroleum-related compounds and metals were detected in soil, groundwater, and soil vapor at high concentrations. Primary contaminants include PCE, TCE, ethylbenzene, lead, and mercury. Additionally, six USTs were found during excavation and were subsequently removed. All remediation activities have been completed at this site; therefore, this Brownfields site is unlikely to be a PRP for contamination that cannot be traced to an on-site source.

NY Spills*:* The NY Spills database reports data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regulations), or 6 NYCRR Section 595.2 (from CBS regulations). NY Spills includes spills active from April 1, 1986, to the present. In 2002, NYSDEC stopped providing updates to its original Spills Information database. This database, now known as the NY HIST SPILLS database, includes fields that are no longer available from the NYSDEC as of January 1, 2002. Current information may be found in the NY Spills database.

The EDR database identified 34 sites on the NY Spills databases located within 0.125 mile of the subject properties. All NY Spills are listed with spill closure dates indicating that corrective actions were taken, with the exception of a private residence at 1277 Bronx River Avenue. The status of this NY Spills site, located 0.091 mile east-southeast of the target properties, remains unreported since September 23, 2011. A subsurface return line was allegedly leaking an unknown quantity into the soil floor. A new aboveground return line was installed, although it is unclear if corrective cleanup activities took place.

CDM Smith reviewed the sites listed on the database and did not identify any RCRA Non Generator sites of environmental concern.

NY INST CONTROL: This registry contains a listing of classification exemption area sites where groundwater contamination exists above a state standard. The EDR database report identified one NY INST CONTROL site within 1 mile of the subject properties. Refer to NY Brownfields database discussion earlier under this section for details regarding 1899–1905 West Farms Road.

NY Drycleaners: This database is a listing of registered dry cleaners in New York. Two sites were identified within 0.250 mile of the subject properties. However, because no contamination has been identified on the property, CDM Smith does not consider the site to be a REC.

NY MANIFEST: A manifest is a document that lists and tracks hazardous waste from generator through transporters to a transporter, storage, and disposal (TSD) facility. The subject property, 1480 Sheridan Expressway, was identified as a NY MANIFEST site. Refer to information provided earlier in Section 5 regarding the subject properties for further details. A total of 79 additional sites were identified as having a documented manifest originating from its site, confirming the generation and transportation of hazardous waste to TSD facilities. CDM Smith reviewed the manifest list and did not identify any sites with the potential to impact the subject properties, and therefore no RECs were identified.

Refer to Appendix C for copies of the SPDES general permits and correspondence with NYSDEC.

EDR MGP: The EDR MGP database includes records of coal gas plants compiled by EDR researchers. MGPs were used in the U.S. from the 1800s to 1950s to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that produced a significant amount of waste. Many of the gas production byproducts, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils, and other compounds, are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant sites and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination. EDR identified one MGP within 1 mile of the subject properties. There is no additional information listed about this site in the database. CDM Smith does not consider it to be a REC at this time.

EDR Historical Auto: EDR has searched selected national collections of business directories and has collected listings of potential gasoline station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gasoline station/filling station/service station establishments. The categories reviewed included gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, and service station. A review of EDR's historical auto stations list identified six historical stations within 0.125 mile of the subject properties. The sites are summarized below.

Site/Address	Direction/Distance	Occupant Name	Description	Dates
Expressway Service Station 1476 Sheridan Expressway, Bronx, NY	SSW <⅛ (0.016 mile)	Expressway Service Station	Gasoline service stations	1980–1989
		On Point Auto Center	General automotive repair shop	1996–1997
		1476 AAA Automobile Inc	General automotive repair shop	2010–2014
Expressway Service Station 1355 West Farms Road, Bronx, NY	SW <⅛ (0.043 mile)	Expressway Service Station	Gasoline service stations	1969–1975
J & L Auto Service 1471 West Farms Road, Bronx, NY	W <⅛ (0.047 mile)	J & L Auto Service	Gasoline service station	1970s–1987
			General automotive repair shop	1988–1994
Esteven Service Station Inc. 1441 Westchester Avenue, Bronx, NY	SSE < ⅛ (0.121 mile)	George & Petes Service Center	Gasoline service station	1969–1976
		Getty Gas & Service Station	Gasoline service station	1991–1995
		Esteven Service Station Inc.	Gasoline service station	2000–2012
		E & S Auto	General automotive repair shop	2005–2008

Based on the concentration of automotive body shops and gasoline stations to the subject properties with operations dating to the 1960s, there is a high potential for any of these properties to impact groundwater at the subject properties. Thus, these properties are recognized as a REC at this time. Should environmental investigations that identify groundwater contamination that cannot be traced to an on-site source be performed at the subject properties, these nearby former auto body centers and gasoline stations should be evaluated as PRPs.

Orphan Sites: The EDR report identified six un-mappable sites in the general vicinity of the subject properties that are listed as "orphan sites" and are not plotted on the EDR maps. CDM Smith reviewed the list of orphan sites and, due to lack of available information, was unable to identify any sites suspected of having had a direct impact on the subject properties.

5.2 New York City Department of Environmental Protection

CDM Smith filed a FOIA request with NYCDEP on October 1, 2018, to obtain copies of all current and historical records pertaining to the subject properties. NYCDEP responded to the request on October 11, 2018, advising that no records for the request were located.

5.3 New York State Department of Labor

CDM Smith filed a FOIA request with NYSDOL on October 1, 2018, to obtain copies of all current and historical records pertaining to the subject properties. NYSDOL responded to the request on October 17, 2018, advising that no records for the request were located.

5.4 New York State Department of Health

CDM Smith filed a FOIA request with NYSDOH on October 1, 2018, to obtain copies of all current and historical records pertaining to the subject properties. NYSDOH responded to the request on October 17, 2018, advising that no records for the request were located.

5.5 New York State Department of Environmental Conservation

CDM Smith filed a FOIA request with NYSDEC on October 1, 2018. Records received from NYSDEC on October 30, 2018 included correspondence with the Bureau of Water Permits regarding requests and renewals, PBS applications, National Pollutant Discharge Elimination System (NPDES) discharge monitoring reports, Storm Data Event Forms, NPDES general permit requests, and monthly tank inspection forms.

Copies of these records and other information provided by NYSDEC are provided in Appendix C.

5.6 U.S. Environmental Protection Agency Records

CDM Smith performed a property search query via MyPropertyInfo on the EPA FOIA website. CDM Smith queried the database using the addresses 1460 and 1480 Sheridan Expressway in Bronx, New York. One property was listed on the Facility Registry Services (FRS) database with the following Standard Industrial Classification (SIC) code associated with the subject properties.

Property	Information Systems ID	SIC Code	Description
LKQ Hunts Point Auto Parts, 1480 Sheridan Expressway	NY0000002600500852	5015	Motor vehicle parts, used

No records for 1460 Sheridan Expressway were reported.

The MyPropertyInfo tool allows numerous professionals, including real estate agents, mortgage banks, and engineering and environmental consultants, and the general public to determine if EPA databases have records on specific properties without the need for filing a FOIA request. The results of the electronic search are identical to the information received by filing a FOIA request.

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Section 6

History

6.1 Historical Use of the Subject Properties and Adjoining Properties

The history of the subject properties was determined based on CDM Smith's review of historical aerial photographs, topographic maps, property records, and information provided by the New York City Department of Finance and EDR. Historical records indicate that the subject properties were used as a railroad company, automotive repair and demolition shop, welding shop, and a variety of other businesses. The subject properties have been used in industrial settings since records were reported in the 1890s.

6.1.1 Aerial Photographs

CDM Smith reviewed aerial photographs provided by EDR (2018a) for the years 1924, 1951, 1954, 1962, 1966, 1974, 1976, 1984, 1991, 1994, 2006, 2009, 2013, and 2017 (scale range: 1 inch = 500 feet) . (See Appendix E.) Descriptions of the aerial photographs are provided below.

1460 Sheridan Expressway

The 1924 aerial photograph shows a large building present at 1460 Sheridan Expressway, toward the southern end of the property. The remainder of the lot appears to be partially vegetated and partially undeveloped.

The 1951 aerial photograph shows the 1460 Sheridan Expressway parcel improved with the addition of three buildings.

The 1954 aerial photograph shows little to no change to the subject property.

The 1962 aerial photograph shows a new, large building on 1460 Sheridan Expressway on the northern half of the parcel. All previous buildings on the lot have been removed.

The 1966 aerial photograph shows little change to 1460 Sheridan Expressway.

The 1974, 1976, and 1984 aerial photographs show little change to the subject property.

The 1991 aerial photograph shows the subject property improved with structures on-site.

The 1994 aerial photograph shows little change to the subject property.

The 2006 aerial photograph shows a new large building on-site at 1460 Sheridan Expressway directly adjacent to the previous building. Rows of cars and trucks are now parked on-site in the southern portion.

The 2009 and 2013 aerial photographs show little change to the subject property and surrounding properties.

The 2017 aerial photographs show the large, irregular building removed from 1460 Sheridan Expressway.

1480 Sheridan Expressway

The 1924 aerial photograph shows several structures are located at 1480 Sheridan Expressway, which borders an active railroad track to the south. The surrounding area is densely populated with residential homes and industrial and commercial businesses.

The 1951 aerial photograph shows the structures previously scattered across 1480 Sheridan Expressway, appearing to have been razed, leaving one large building and a few structures remaining. Debris piles are located on-site. The railroad track to the south of the property remains active. The surrounding area has become significantly populated as the Bronx continues to develop as part of a major metropolitan area. Multiple story buildings have replaced the residential homes seen in the previous aerial photograph.

The 1954 aerial photograph shows little to no change to the subject property.

The 1962 aerial photograph shows structures at 1480 Sheridan Expressway with little to no change from the previous photograph. Debris piles have been removed from the lot. Cars and other large vehicles can be seen parked across the parcel in significant numbers. The subject properties have been reduced in size as construction on the Sheridan Expressway has begun.

The 1966 aerial photograph shows some remaining structures previously located on 1480 Sheridan Expressway that have been removed. The road west of the subject properties has been improved with fully paved roads and more lanes.

The 1974, 1976, and 1984 aerial photographs show little change to the subject property.

The 1991 aerial photograph shows the subject property improved with structures on-site.

The 1994 aerial photograph shows little change to the subject property.

The 2006 aerial photograph shows the large building previously at 1480 Sheridan Expressway that has been removed, with a new, irregular-shaped building in the same area of the lot. The parcel contains several new structures. Cars and other vehicles continue to be present across the site.

The 2009 and 2013 aerial photographs show little change to the subject property and surrounding properties.

The 2017 aerial photographs show several structures from 1480 Sheridan Expressway that have been removed. Cars and trucks remain parked on-site, although at a significantly lower number. The property appears to have covered or replaced its asphalt surface with concrete.

6.1.2 Historic Topographic Maps

CDM Smith reviewed the following historical topographic maps provided by EDR (2018f): Harlem 15-minute topographic maps for 1897, 1898, and 1900 (scale 1:62500) and Flushing and Central Park 7.5-minute topographic maps for 1947, 1955, 1956, 1966, 1979, 1995/1997, and 2013 (scale 1:24000). Copies of the EDR historical topographic maps are provided in Appendix F. Summaries of the topographic maps reviewed are provided below.

The 1897 topographic map shows the subject properties as occupied with small buildings/structures. There is a large network of roads running throughout the borough. Structural development is well-established in the area. The Bronx River and a set of railroad tracks are located east of the subject properties. Areas southeast of the properties are more undeveloped.

The 1898 and 1900 topographic maps show little change to the subject properties. The surrounding properties are continuing to develop.

The 1947 topographic map shows little change to the subject properties. Additions of larger buildings are observed on the lots. Significant development of the surrounding area can be seen by the addition of new subway lines, schools, and increased occupation of previously vacant areas. Major road improvements have gone underway, and highways and interstates now run throughout the city.

The 1955 topographic map shows little change to the subject properties. Railroad tracks located directly south of 1480 Sheridan Expressway have been reduced. The pink-shaded areas of the map indicate the city is continuing to develop.

The 1966, 1979, and 1995/1997 topographic maps show little change to the subject properties. The pink-shaded areas of the map indicate the city is continuing to develop. The purple areas of the map indicate additional buildings or development.

The 2013 topographic map shows little change to the subject property. Railroad tracks located south of 1480 Sheridan Expressway have been reduced.

6.1.3 Sanborn Fire Insurance Maps

Sanborn maps constitute a database of prior site uses of real property for many cities and towns in the U.S. The maps were originally created to assist insurance underwriters in understanding the potential fire risk of structures requiring insurance; however, they also are useful for determining the previous uses of a property. Sanborn maps often contain information relating to uses of individual structures, location of certain fuel storage tanks, chemical storage tanks, or both and storage of other potentially toxic substances. Sanborn maps begin their coverage in 1846 and continue through the present.

CDM Smith reviewed Sanborn maps for 1896, 1901, 1903, 1915, 1919, 1928, 1950, 1969, 1977, 1980, 1981, 1983, 1985, 1986, 1989, 1991, 1992, 1993, 1994, 1995, 1996, 1998, 2001, 2002, 2003, 2004, 2005, 2006, and 2007, which were provided by EDR (see Appendix G), for the subject properties. A summary of the subject properties' development as depicted in historical Sanborn maps is presented below.

The 1896 Sanborn map shows 1460 Sheridan Expressway occupied by a railroad company power house. The lot is accessible by West Farms Road. The adjacent properties to the south are occupied by several small structures. Farther south, 1480 Sheridan Expressway is used as a coal and lumber yard. It is located by Charlotte Street and Edgewater Road and is not directly adjacent to another parcel to the north.

The 1901 Sanborn map shows 1460 Sheridan Expressway as occupied by Union Railway Power House. 1480 Sheridan Expressway remains a coal yard; the property has been improved with a rail line. The street previously identified as Charlotte Street has been renamed Jennings Street.

The 1903 Sanborn map does not show any information relating to the subject properties.

The 1915 Sanborn map shows little to no change for 1460 Sheridan Expressway; Union Railway Co Garage & Storage remains on-site. The Olin J. Stephens Coal & Wood Yard occupies 1480 Sheridan Expressway. Jennings Street no longer continues to the Bronx River. 1480 Sheridan Expressway shares its northern border with the adjacent property, absorbing the old roadway.

The 1919 and 1928 Sanborn maps do not show any information relating to the subject properties.

The 1950 Sanborn map shows Third Avenue Railway System & Surface Transportation Company occupying 1460 Sheridan Expressway. The property has been improved with a building expansion and the construction of a secondary building. A paint shop, a welding shop, a blacksmith shop, a bus repair shop, and storage areas are on-site. 1480 Sheridan Expressway is occupied by Flexicore Co., a concrete slab manufacturer. The property contains a shed, shop, storage structure, and contractor's yard. Industrial businesses, including an auto work shop and a plaster castings manufacturer, have begun occupying surrounding parcels.

The 1969 Sanborn map does not show any information relating to the subject properties.

The 1977 Sanborn map shows 1460 Sheridan Expressway used as an iron works facility and yard; only one large rectangular building remains on the lot. 1480 Sheridan Expressway is used for welding, building repair, and storage. A shed has been removed or grazed from the site, and the parcel is now occupied by Corbetta Construction Co., Inc. The adjacent West Farms Road has been renamed to Arthur V. Sheridan Expressway and improved to provide increased vehicular traffic. Property lines for the subject properties have been moved inward to the east for the development of the new expressway. Surrounding parcels near the subject properties continue to develop and improve.

The 1978 Sanborn map shows little to no change on the subject properties.

The 1979 Sanborn map show Auto Parts W & Yard replacing Corbetta Construction Co., Inc. as the occupant at 1480 Sheridan Expressway. No other changes are seen on the subject properties.

The 1980, 1981, 1983, 1985, 1986, 1989, 1991, and 1993 Sanborn maps show little to no change at the subject properties. Surrounding parcels near the subject properties continue to develop and improve.

The 1994 Sanborn map shows little to no change at the subject properties. A new road immediately adjacent to the subject properties has been developed. Edgewater Road, located next to Arthur V. Sheridan Expressway, extends along the western side of both parcels.

The 1995, 1996, 1998, 2001, 2002, 2003, 2004, 2005, 2006, and 2007 Sanborn maps show little to no change at the subject properties. Surrounding parcels near the subject properties continue to develop and improve.

6.1.4 City Directories

City Directories have been published for cities and towns across the U.S. since the 1700s. Business directories, including city, cross reference, and telephone directories, were reviewed at approximately 5-year intervals for years spanning 1969 through 2014.

CDM Smith reviewed the City Directories report provided by EDR (2018c), which included a summary of ascertainable information between 1927 and 2014 from Hill-Donnelly Information Services, New York Telephone Company, Manhattan and Bronx Directory-Publishing Company Residential Directory, and Cole Information Services. The subject properties were identified in the City Directories report.

1460 Sheridan Expressway was identified through the city directory as occupied by Belco Steel Corp in 1983, 1993, and 2005. Hunts Points Auto Wreckers appeared in the directory in 2005. 1480 Sheridan Expressway was occupied by Hunts Point Auto Wreckers in 1983, 1993, and 2000, with Hunts Point Auto Parts appearing concurrently in 1993 and 2000. LKQ Hunts Point Auto Parts is listed in the city directory as the occupant in 2005.

The adjoining properties as identified through the city directory have been occupied historically by commercial and industrial businesses or have been residential. A copy of the City Directories report prepared by EDR is provided as Appendix H.

6.1.5 Interviews

CDM was unable to perform an interview due to lack of access to persons with historical knowledge of the sites. Al Nesheiwat, the owner's representative, provided background information in relation to the subject properties. Mr. Nesheiwat stated that 1460 Sheridan Expressway was partially remodeled prior to the arrival of its current occupants. Equipment and machinery related to auto repair or demolition was removed off-site. Currently, a large trailer containing unknown items left from the previous occupant remains on-site in the parking lot. Regarding the storm drains located at 1460 and 1480 Sheridan Expressway, Mr. Nesheiwat stated that runoff from the sites do not dump directly into the Bronx River.

6.2 Ownership History

Property owner information was gathered from the EDR lien search. 1460 Sheridan Expressway is owned by West Farms Realty LLC, c/o PDJ Simone Realty Co., who received the property from 1460 Sheridan Expressway Corporation via a bargain and sale deed on November 15, 1999, recorded in Deed Book 1728, Page 185. 1480 Sheridan Expressway is owned by PDJ Simone Realty Co., who received the property from Hunts Point Auto Wreckers, Inc. on July 12, 1984, recorded in Deed Book 557, Page 384.

The tables provide a summary of ownership based on the records reviewed.

1460 Sheridan Expressway				
Grantor	**Grantee**	**Book**	**Page**	**Date**
1460 Sheridan Expressway Corporation	West Farms Realty LLC	1728	185	11/15/1999

1480 Sheridan Expressway				
Grantor	**Grantee**	**Book**	**Page**	**Date**
Hunts Point Auto Wreckers	PDJ Simone Realty Co.	557	384	07/12/1984

A copy of the EDR lien search is provided as Appendix D.

6.3 Raw Materials, Finished Products, Formulations, and Hazardous Substances

As discussed under Sections 2.3 and 6.1, the subject properties were used for industrial and commercial purposes. Occupants used the parcels for automotive repair and demolition, an iron yard, concrete manufacturing welding, a construction yard, and a coal and lumber yard. Hazardous materials used or generated by previous operations typically include solvents, cleaners, waste oil, coolants, and petroleum products.

6.4 Permits and Violations

EDR conducted a search for building permits issued for the subject properties. The following permits were identified:

1460 Sheridan Expressway			
Permit Type	**Permit Number**	**Date**	**Description**
Plumbing	220422219-03-PL	04/21/2016	Mechanical and plumbing work associated with renovation of existing auto repair shop.
Electrical	Y173721	07/02/2015	No description provided.
Sign	220455344-01-SG	05/06/2015	No description provided.
Sign	220455353-01-SG	05/06/2015	No description provided.
Equipment Work	220422219-01-EW-OT	02/26/2015	Renovation of existing auto-repair shop.
Equipment Work	220422219-01-EW-OT	02/26/2015	Structural work associated with the renovation of existing auto repair shop.
Equipment Work	220422219-03-EW-OT	02/26/2015	Mechanical and plumbing work associated with renovation of existing auto repair shop.
Electrical	Y019808	04/09/1988	No description provided.
Electrical	Y019986	12/15/1986	No description provided.

1480 Sheridan Expressway			
Permit Type	**Permit Number**	**Date**	**Description**
Plumbing	220251625-01-PL	04/04/2013	New heating, ventilation, and air conditioning (HVAC) units and unit heaters to replace existing, new gas piping, existing as meter to be unlocked. No change in egress, use or occupancy as part of this application.
Equipment Work	220251625-01-EW-MH	03/01/2013	New HVAC units and unit heaters to replace existing, new gas piping, existing as meter to be unlocked. No change in egress, use or occupancy as part of this application.

See Appendix I for the EDR building permit report (2018b).

6.5 Discharges and Remedial Activity

CDM Smith is unaware of any discharges or remedial activities at the subject properties. The Phase I ESA performed by TEAM Environmental Associates (2017) for 1480 Sheridan Expressway reported a potential on-site oil/water separator allegedly discharging into the Bronx River; however, no further information was available. No discharges or dumping activities were observed by CDM Smith during the site reconnaissance.

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Section 7
Site Reconnaissance

7.1 Methodology and Limiting Conditions

CDM Smith performed a site reconnaissance of the subject properties on October 26, 2018. Elizabeth Krupka and Emily Wong of CDM Smith performed the reconnaissance. Copies of the reconnaissance photographs are provided in Appendix A**.**

7.2 General Site Setting

The subject properties are located in a mixed industrial/commercial/residential area of the South Bronx. The properties are secured with metal gates and fencing. At 1460 Sheridan Expressway is a newly remodeled office building with a two-story warehouse. The office building occupies majority of the parcel, with exception of the parking area west of the building. 1480 Sheridan Expressway is a large, irregularly shaped parcel that is primarily used for parking. On this property are five garage buildings. One of the buildings contains two floors, with an office space sitting above the garage. The parcel slopes toward the east due to the proximity and location of the Bronx River.

7.3 Exterior Observations

The subject properties were visually assessed for RECs.

7.3.1 Hazardous Substances

Empty and partially full containers, spray paint cans, cleaning agents, and 5-gallon buckets were observed in various areas at 1480 Sheridan Expressway. See Appendix A for photographs.

7.3.2 Storage Tanks

No evidence of storage tanks was observed on the properties. However, three gasoline/diesel fuel USTs were reportedly removed from 1480 Sheridan Expressway.

7.3.3 Odors

No strong, pungent, or noxious odors were observed.

7.3.4 Pools of Liquid

No pools of liquid were observed.

7.3.5 Drums

No drums were observed.

7.3.6 Polychlorinated Biphenyls

No surficial evidence of polychlorinated biphenyls (PCBs) was observed.

7.3.7 Stained Soil or Pavement

The concrete pavement at 1480 Sheridan Expressway was observed to be stained with a dark, greasy material. Reddish fluid with unknown origins was observed to be spilled on the concrete. No cracks within the concrete or potential for soil contamination was observed. See Appendix A for photographs.

7.3.8 Drywells and Sumps

No surficial evidence of exterior drywells or sumps was observed. Storm drains were observed at both subject properties. No staining or discharge points were observed; however, based on the heavy presence of vehicles on the subject properties, runoff from cars or trucks could be a potential source of contamination.

7.3.9 Pits, Ponds, and Lagoons

No surficial evidence of pits, ponds, or lagoons was observed within the limits of the properties.

7.3.10 Wells

No surficial evidence of groundwater wells was observed.

7.3.11 Solid Waste and Debris Piles

Debris piles were scattered in the rear southern portion at 1480 Sheridan Expressway. The material appeared to be construction-related equipment and tools. Open bags of sand and fill were observed.

7.3.12 Stressed Vegetation

No areas of stressed vegetation were observed on the subject properties.

7.3.13 Wastewater

A possible discharge point was observed through the gate access to the Bronx River at 1480 Sheridan Expressway; however, there was no wastewater or other liquids observed being discharged into a drain, ditch, underground injection system, or stream on or adjacent to the subject properties.

7.3.14 Septic Systems

No septic systems or cesspools were observed on the subject properties.

7.3.15 Asbestos-Containing Materials

No ACMs were observed at the subject properties. Based on the age of the buildings at 1460 and 1480 Sheridan Expressway, structures on-site may contain ACMs. Proper precautions must be adhered to during redevelopment of the subject properties.

7.3.16 Mold

No mold was observed on the subject properties.

7.4 Interior Observations

The subject properties were visually assessed for RECs.

7.4.1 Hazardous Substances

Empty and partially full containers, spray paint cans, cleaning agents, and 5-gallon buckets were observed in various areas at 1480 Sheridan Expressway. See Appendix A for photographs.

7.4.2 Storage Tanks

No storage tanks were observed on the properties.

7.4.3 Odors

No strong, pungent, or noxious odors were observed.

7.4.4 Pools of Liquid

No pools of liquid were observed.

7.4.5 Drums

No drums were observed.

7.4.6 Polychlorinated Biphenyls

Fluorescent light ballasts were observed in buildings at 1460 and 1480 Sheridan Expressway, but it is unknown if the lights had PCB-containing oils. Proper handling of the light ballasts should be used during property redevelopment.

7.4.7 Stained Soil or Pavement

The concrete pavement at 1480 Sheridan Expressway was observed to be stained with a dark, greasy material. Reddish fluid with unknown origins was observed to be spilled on the concrete. No cracks within the concrete or potential for soil contamination was observed. See Appendix A for photographs.

7.4.8 Drywells and Sumps

No drywells or sumps were observed at the subject properties.

7.4.9 Pits, Ponds, and Lagoons

No surficial evidence of pits, ponds, or lagoons was observed within the limits of the properties.

7.4.10 Wells

No surficial evidence of groundwater wells was observed.

7.4.11 Solid Waste and Debris Piles

No solid waste or debris piles were observed.

7.4.12 Stressed Vegetation

No areas of stressed vegetation were observed on the subject properties.

7.4.13 Wastewater

Floor drains were observed on the first floors of the buildings at 1480 Sheridan Expressway. No wastewater or other liquids were observed discharging into the floor drains.

7.4.14 Septic Systems

No septic systems or cesspools were observed on the subject properties.

7.4.15 Asbestos-Containing Materials

No ACMs were observed at the subject properties. Based on the age of the buildings at 1460 and 1480 Sheridan Expressway, structures on-site may contain ACMs. Proper precautions must be adhered to during redevelopment of the subject properties.

7.4.16 Mold

No mold was observed on the subject properties.

Section 8
Findings, Conclusions, and Recommendations

CDM Smith completed this Phase I ESA of the subject properties on behalf of EPA as a result of a TBA request from SoBro, the Grantee. This Phase I ESA was completed in conformance with the scope of requirements of EPA AAI Rule and ASTM Standard Practice for ESAs: Phase I ESA Process E 1527-13. No exceptions to or deletions from this practice were taken. Several RECs associated with the subject properties were identified. See below for details.

8.1 Findings and Conclusions

1460 and 1480 Sheridan Expressway was used historically for industrial and commercial purposes and operated for a variety of businesses since the late 1890s, including as an automotive repair and demolition, a concrete slab manufacturing facility, and an iron yard. The subject properties are secured with metal fencing and gates. Currently, 1460 Sheridan Expressway is an automotive parts yard, and 1480 Sheridan Expressway is a long-term parking facility.

The conclusions noted below are based on CDM Smith's review of file information, databases, historical records review, and site reconnaissance.

- 1460 Sheridan Expressway was used predominantly in an industrial setting, including approximately 35 years as an iron yard. Recently, it was used as an automotive demolition facility, before becoming an automotive parts yard. 1480 Sheridan Expressway was occupied by a coal and lumber yard dating to the 1890s. It was later occupied by a concrete slab manufacturing facility and later as a contractor's yard for approximately 30 years. It is currently as a long-term parking facility.
- The subject properties are owned by PDJ Simone Realty Co.
- The surrounding area is used for residential, commercial, and industrial purposes.
- No environmental liens or activity and use limitations were found.
- No public water supply wells were identified in the well search information provided by EDR in the Radius Report (2018g).

Based on CDM Smith's review of file information, databases, historical records review, and site reconnaissance, the following RECs are identified:

REC 1 – Historical Use: 1460 Sheridan Expressway has been used as a coal and lumber yard, railway company, including a powerhouse, garage, bus repair, and paint shop. 1480 Sheridan Expressway has been used as an iron yard, a concrete manufacturing, and an automotive maintenance and demolition facility since the 1890s. Based on CDM Smith's review of historical aerial photographs, Sanborn maps, and other documents, the properties adjacent to the subject properties have been used in similar industrial settings since the 1950s. Hazardous materials

used or generated by the subject properties would likely have included solvents, cleaners, waste oil, coolants, and petroleum products.

REC 2 – Underground and Aboveground Storage Tanks: Three gasoline/diesel fuel USTs were reportedly closed and removed from 1480 Sheridan Expressway. No documentation of post excavation sampling during the removal activities or confirmation of absence of contamination at these locations was available at the time of this Phase I ESA. Additionally, four ASTS, including two 1,000-gallon diesel and waste oil and two 249-gallon gasoline tanks, located at 1480 Sheridan Expressway were reportedly closed in March 2014. A 1,000-diesel fuel AST was reportedly removed from the site in 2017.

REC 3 – Drainage: Hazardous materials used at automotive repair and demolition shops may have been removed off-site at 1480 Sheridan Expressway using the drainage system. Trench drains were observed near the former location of a UST. Interior floor drainage systems and external storm drains located near historic car maintenance areas of the property are additional potential locations for contamination associated with former site operations.

REC 4 – Hydraulic Lifts: An in-ground hydraulic lift was observed in the garage warehouse at 1480 Sheridan Expressway. Hydraulic oil and fluids used to operate the hydraulic lift are a potential source of contamination at the site through leaks in lines or hoses.

REC 5 – Vapor Intrusion: Potential vapor intrusion issues that are associated with historical operations and neighboring commercial and light industrial properties may be present at the site.

REC 6 – Staining and Potentially Hazardous Material/Debris: Stained concrete was observed at 1480 Sheridan Expressway. Reddish fluid was observed to be spilled on the concrete. This may be indicative of contamination related to site operations or poor housekeeping practices. Empty and partially full containers, spray paint cans, cleaning agents, and 5-gallon buckets were observed throughout the subject property. Debris piles were scattered in the rear southern portion of the property.

REC 7 – Potential Off-site Contamination: Several upgradient or nearby properties were identified for their potential to impact groundwater on the subject properties. Upgradient or nearby properties and their respective distance from the subject properties include:

- Bethel Cleaners (0.365 miles), which is listed as a NY SHWS (site with on-site sources of VOCs impacting soil and indoor air). Impacts to groundwater could not be assessed due to drilling refusal; however, groundwater is not used as a drinking water source in the area. The primary contaminants of concern in soil are PCE, xylene, and 1,2,4-trimethylbenzene.

- 1544 Boone Avenue (0.071 miles), which is listed as a VCP site with contaminated soil, groundwater, and soil vapor on-site. Approximately 10 historic USTs were on-site. Soil samples results detected several VOCs, SVOCs, and heavy materials at concentrations exceeding regulatory standards. A total of 3,777 tons of petroleum-impacted soil and 96,000 gallons of petroleum-impacted groundwater have been removed from the site. All USTs have been removed. Should environmental investigations that identify contamination that cannot be traced to an on-site source be performed at the subject property, this VCP site should be evaluated as a PRP.

- 1560 Boone Avenue (0.113 miles), which is listed as a VCP site with historical uses as a contractor's shop, an automotive repair shop, a machine shop, and a metal door manufacturing shop. Contaminants of concern at this site include VOCs, SVOCs, copper, lead, and mercury.

- 1125 Whitlock Avenue (0.355 miles), which is listed as a VCP site previously occupied by a plastics manufacturer and used as storage with small automotive repair shops. Hisotrical data show previous uses of the parcel as a gas station and automotive garages. VOCs, SVOCs, and metals were detected at concentrations exceeding cleanup objectives.

- 1825 Boston Road (0.492 miles), which is listed as a VCP site previously used as a transit rail car and bus maintenance and repair facility for approximately 100 years. Two 5,000-gallon tanks and one 10,000-gallon tank were removed from the site in the 1990s. Based on historical use, petroleum products and solvents are among potential contaminants at this site.

- 1095 Southern Boulevard (0.430 miles), which is listed as a NY Brownfields site. Historically, this parcel has been used for commercial businesses, including a dry cleaning facility. Known or suspected contaminants include chlorinated solvents, PCE, trichloroethylene, 1,2-dichloroethene, chlorinated volatile organic compounds, and metals. Soil, groundwater, and soil vapor at this property has shown significant concentrations of the contaminants of concern.

- Historical auto stations within 0.125 mile of the subject properties represent a high potential for impacting the site's groundwater. Expressway service station (0.043 mile), J & L Auto Service (0.047 mile), and Esteven Service Station (0.121 mile) have auto-related operations dating to the 1960s. These three sites are a potential source of off-site contamination to the subject properties.

Should environmental investigations that identify contamination that cannot be traced to an on-site source be performed at the subject properties, these sites should be evaluated as PRPs.

Other Items of Environmental Concern:

- ***Lead-Based Paint:*** Structures located at 1460 and 1480 Sheridan Expressway were constructed prior to 1977. Therefore, the buildings have a significant potential for LBP and/or LBP dust. Materials removed as part of property redevelopment should be characterized for lead prior to handling and disposal.

- ***Asbestos Containing Materials:*** The manufacturing of most ACMs were banned in 1979. Prior to this time, asbestos was a common constituent of numerous building materials, such as floor and ceiling tiles, mastic, caulking, pipe insulation, window glazing, roofing materials, and exterior siding. No suspected ACMs were observed during CDM Smith's reconnaissance. However, based on the age of buildings on the subject properties, materials removed as part of property redevelopment may contain ACMs. Materials removed as part of property redevelopment should be characterized for asbestos prior to handling and disposal.

- ***Light Ballasts:*** Structures at 1460 and 1480 Sheridan Expressway were observed to have fluorescent light ballasts in place. Prior to 1979, PCB-containing oils were commonly used in transformers and fluorescent light ballasts; these uses has since then been banned. Proper handling and disposal of the light ballasts should be used during property redevelopment.

8.2 Recommendations

The purpose of this Phase I ESA is to identify the presence of RECs at the subject properties and to determine if an SI is needed.

Based on the presence of RECs, a Phase II SI is recommended at the subject properties to confirm the presence of hazardous materials. The following components should be considered for the Phase II SI:

- Geophysical survey to identify the presence of any potential USTs, vaults, buried drums/containers, underground piping, buried building foundations, buried utilities, or subsurface anomalies.
- Surface and subsurface soil sampling to investigate the potential for soil contamination.
- Soil screening using a PID to assist in site assessment and selection of soil sampling intervals.
- Groundwater sampling via temporary well point or screen point sampling to determine groundwater flow and the potential for groundwater contamination.
- Soil vapor sampling to investigate potential vapor intrusion.

Analysis should include VOCs, SVOCs, PAHs, PCBs, petroleum hydrocarbons, and metals. Soil analytical results must be compared to NYSDEC Subpart 375-6 restricted residential use soil cleanup objectives, and groundwater analytical results must be compared to NYSDEC Class GA Groundwater Criteria.

Based on historical operations of the properties, concern for exposure could exist during future earthwork, and health and safety precautions should be considered. Construction worker and subject property worker use scenarios should be considered during any redevelopment plan. It is recommended that the owner, or future use developer, enlist a professional engineer to develop a health and safety plan, construction contingency plans, and a soils management plan to safely and appropriately remove (or control) potentially impacted materials.

Considering the lack of information regarding the current state of the subsurface materials beneath the subject properties and the known impacts of nearby properties, the quality of soils may not meet residential criteria and may preclude portions of the subject properties from certain future uses. During any future construction activities at the properties, it is recommended that all waste and excavated materials be tested, appropriately managed, and properly disposed.

Section 9
References

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Figures



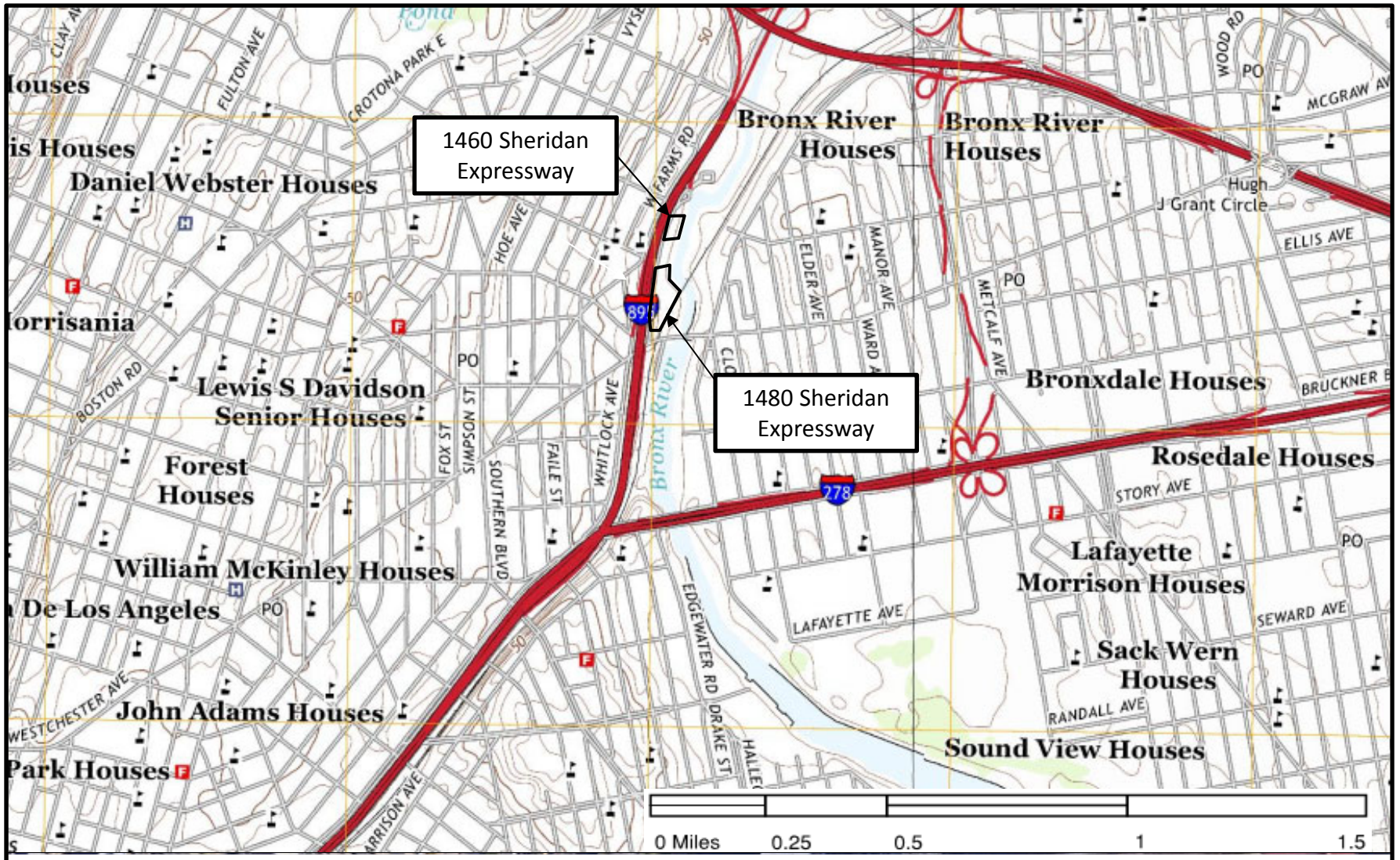
Source: Google Maps (2017)

Property Boundary

N

0’ 150’ 450’ 750’

Figure 1-1
Site Location Map
1460 and 1480 Sheridan Expressway
Target Brownfield Assessments
Bronx, New York



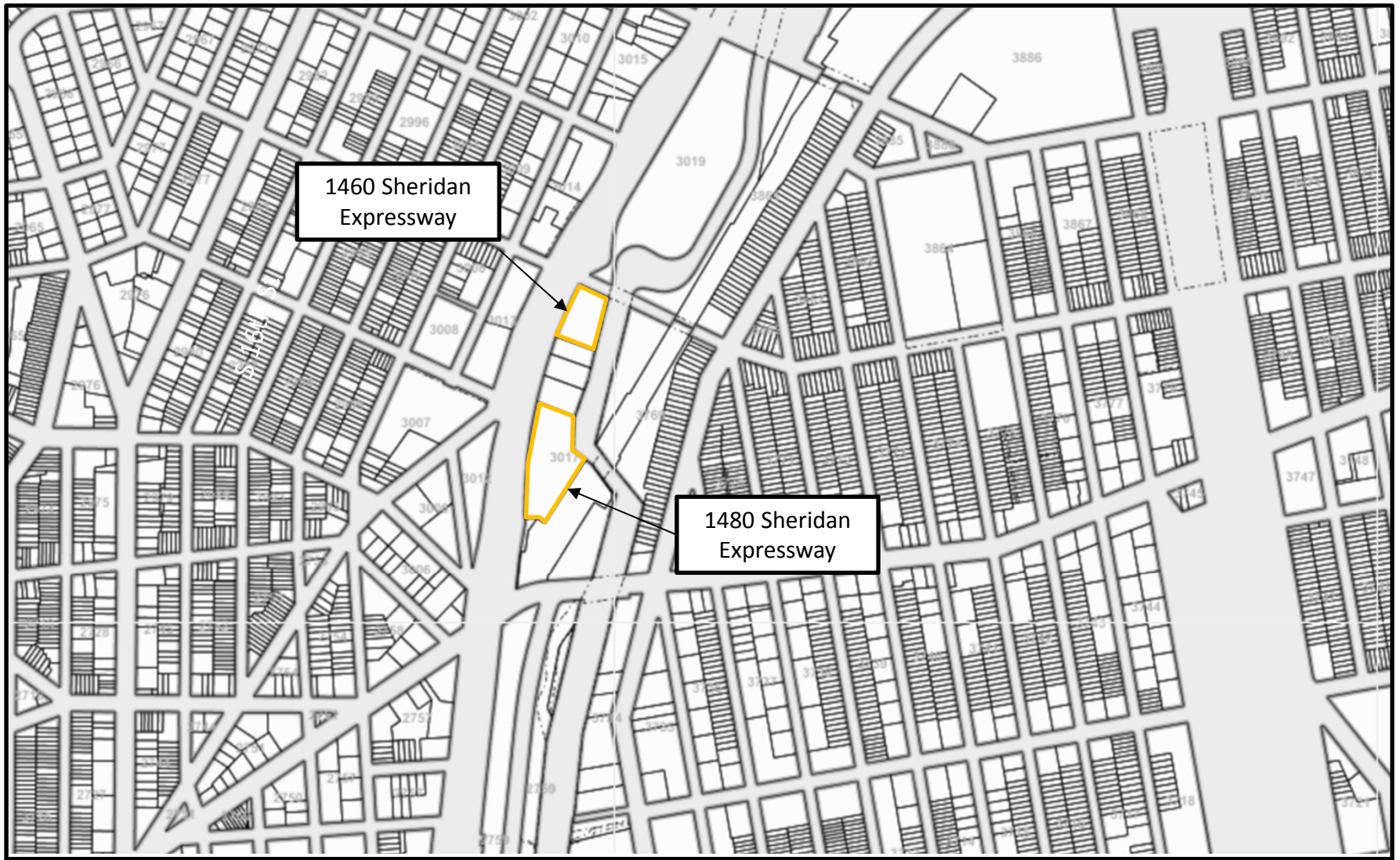
Source: Central Park and Flushing 7.5-minute Quadrangle Map, 2013

Property Boundary

N

CDM Smith

Figure 3-1
Site Topographic Map
1460 and 1480 Sheridan Expressway
Target Brownfield Assessments
Bronx, New York



Source: New York City Department of Finance

Tax Lots

N

CDM Smith

Figure 4-1
Site Tax Map
1460 and 1480 Sheridan Expressway
Target Brownfield Assessments
Bronx, New York

Appendix A

Appendix A

Reconnaissance Photographs

1460 and 1480 Sheridan Expressway, Bronx NY

Photo 1: Interior of building at 1460 Sheridan Expressway.	
Photo 2: Warehouse portion of building at 1460 Sheridan Expressway.	

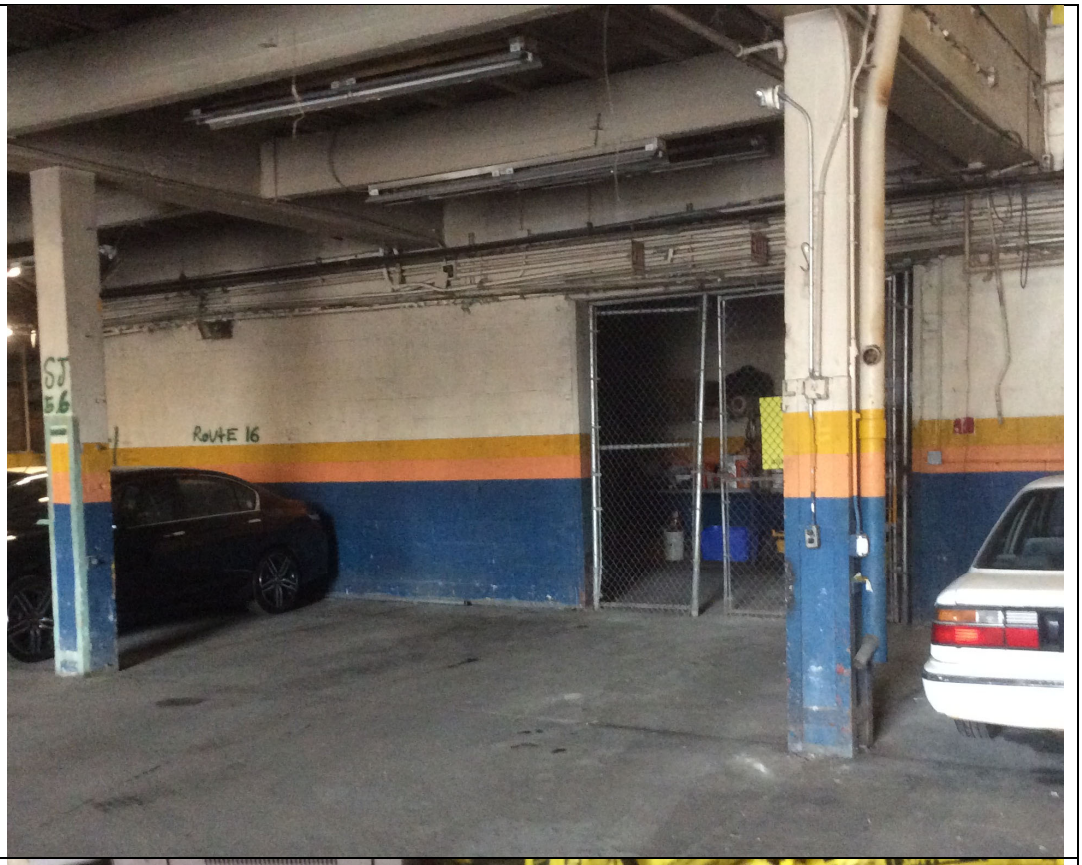
1460 and 1480 Sheridan Expressway, Bronx NY

Photo 3: View of entrance gate to warehouse portion of building at 1460 Sheridan Expressway, showing exterior storm drain.	
Photo 4: View of 1460 Sheridan Expressway facing away from building.	

1460 and 1480 Sheridan Expressway, Bronx NY

Photo 5: Storage containers left onsite at 1460 Sheridan Expressway by previous owners.	
Photo 6: Entrance of 1480 Sheridan Expressway facing east.	

1460 and 1480 Sheridan Expressway, Bronx NY

Photo 7: Interior of a garage building at 1480 Sheridan Expressway. Fenced area contains cleaning agents and other chemicals.	
Photo 8: Additional chemical products located in small storage/laundry room within a garage building at 1480 Sheridan Expressway.	

1460 and 1480 Sheridan Expressway, Bronx NY

Photo 9: Potential location of hydraulic lift used in earlier operations by previous owner at 1480 Sheridan Expressway.	
Photo 10: Approximate location of UST at 1480 Sheridan Expressway.	

1460 and 1480 Sheridan Expressway, Bronx NY

Photo 11: Direct river access behind metal gate onsite at 1480 Sheridan Expressway.	
Photo 12: Storm drain located downslope of garage building at 1480 Sheridan Expressway.	

Appendix B

Appendix B

Environmental Lien Report

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Inquiry Number: 05468323.7R
OCTOBER 31, 2018

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

RESEARCH SOURCE

Source 1: BRONX COUNTY RECORDER'S OFFICE

Source 2: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	P D J SIMONE REALTY COMPANY
Title received from:	HUNTS POINT AUTO WRECKERS INC
Date Executed:	07/12/1984
Date Recorded:	08/23/1984
Book:	557
Page:	384
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description:	LOT AREA ACRES NUMBER: 2.2283 LAND USE DESCRIPTION: WAREHOUSE
Current Owner:	P D J SIMONE REALTY COMPANY
Property Identifiers:	03017-0029
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument:	ENFORCEMENT AND COMPLIANCE HISTORY
First Party:	LKQ HUNTS POINT AUTO PARTS
Second Party:	NA
Date Recorded:	NA
Instrument #:	FRS ID: 110009001793
Book:	NA
Page:	NA
Comments:	

DEED EXHIBIT

REEL PG 384
00557 0084

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 12 day of July, nineteen hundred and eighty-four

BETWEEN

HUNTS POINT AUTO WRECKERS, INC. having its principal office at 1480 Sheridan Expressway, Bronx, N.Y.

party of the first part, and

P.D.J. SIMONE REALTY COMPANY, having its principal office at 1480 Sheridan Expressway, Bronx, N.Y.

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, as follows:

PARCEL A: All that certain lot, piece or parcel of land, with the buildings thereon, situate, lying and being in the Borough and County of the Bronx, City and State of New York, known and designated by the numbers 13 to 23, both inclusive, on map entitled, "Map of lands of Estate of Harriet Bates, situate in the 23rd Ward of the City of New York" dated New York, May 10, 1887, made by Louis A. Risse, C.E. and C.S. and filed in the Office of the Register of the County of New York, by the No. 995, excepting thereout such portion as has been taken therefrom for the opening and laying out of Edgewater Road and West Farms Road, and all that certain strip of land conveyed by Ephraim C. Bates and others to the New York, New Haven and Hartford Railroad Company by deed dated July 24, 1893, recorded on the same day in the Office of the Register of New York County, in Liber 10 Section 11 of conveyances at page 183, bounded and described as follows:
BEGINNING at a point on the easterly side of Sheridan Expressway distant 324.96 feet northerly from the corner formed by the intersection of the northerly side of Westchester Avenue and the easterly side of Sheridan Expressway; thence northerly along the easterly side of Sheridan Expressway, 15.55 feet to a point of curve; thence still northerly along the easterly side of Sheridan Expressway as it curves to the right a distance of 75.10 feet to a point of compound curve; thence still northerly along the said easterly side of Sheridan Expressway as it curves to the right a distance of 446.98 feet to a point; thence easterly along a line forming an angle of 6 degrees 43 minutes 10 seconds on its northerly side with the radial line of the last mentioned course 180.54 feet to a point in the U.S. Pier and Bulkhead line; thence southerly along the said Pier and Bulkhead line on a line forming an interior angle of 91 degrees 35 minutes 39 seconds with the last mentioned course a distance of 7.04 feet; thence still along said Pier and Bulkhead line on a line forming an exterior angle of 164 degrees 36 minutes 15 seconds a distance of 151.27 feet to a point; thence southeasterly and still

(SEE ANNEXED SHEET)

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.
AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.
The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

Joseph P. Simone Pres.
Hunts Point Auto Wreckers Inc
c/o Joseph Simone, Pres

475-00-948 Standard N.Y.B.T.U. Form 8002 Bargain and Sale Deed, with Covenant Against Grantor's Acts—Individual or Corporation

HUNTS POINT AUTO WRECKERS/P.D.J. SIMONE REALTY COMPANY

REEL 00557 PG 0385

Description(Cont'd.)

along the said Pier and Bulkhead on a line forming an interior angle of 236 degrees 11 minutes 15 seconds with the last mentioned course a distance of 33.58 feet to a point; thence southwesterly on a line forming an interior angle of 96 degrees 00 minutes 26 seconds with the last mentioned course, a distance of 337.29 feet to a point; thence westerly on a line forming an interior angle of 124 degrees 21 minutes 36 seconds with the last mentioned course, a distance of 63.70 feet to the point or place of BEGINNING;.

PARCEL B: All the certain piece of parcel of land, situate, lying and being in the Borough and County of the Bronx, City and State of New York, bounded and described as follows: BEGINNING at a point at the most easterly corner of the herein described premises, said point being in the U.S. Pier and Bulkhead Line of the Bronx River and distant 66.23 feet northwesterly of and measured at right angles from Station 196 and 27.38 of the monumented six track center line of the railroad leading from New York, New York, to New Haven, Connecticut; thence southwesterly in a line parallel to and distant 66.23 feet northwesterly of and measured at right angles to said monumented six track center line tangent and tangent extended southwesterly and bounding southeasterly on remaining railroad land 332.97 feet to a point; thence northwesterly at right angles to the last described line and bounding southwesterly on said remaining railroad land 41.00 feet to a point; thence northeasterly at right angles to the last described line and bounding northwesterly on land of Corbetta Construction Co., Inc. 337.29 feet to a point in said U.S. Pier and Bulkhead Line; thence along said U.S. Pier and Bulkhead Line and making an interior angle of 83 degrees 59 minutes 22 seconds with the last described line 41.23 feet to the point or place of beginning.

REEL PG
00557 0386

STATE OF NEW YORK, COUNTY OF ss:

On the 12 day of July 1984, before me personally came Joseph Simone to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

John A Tartaglia
JOHN A. TARTAGLIA
NOTARY PUBLIC
WESTCHESTER COUNTY
#02TA 465843
COMMISSION EXPIRES MARCH 30, 1985

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

RECEIVED
$ 0
STATE
AUG 23 1984
TRANSFER TAX
BRONX
COUNTY

STATE OF NEW YORK, COUNTY OF ss:

On the 12 day of July 1984, before me personally came Joseph Simone to me known, who, being by me duly sworn, did depose and say that he resides at No. 1480 Sheridan Expwy Bronx NY 10459 that he is the president of Hunts Point Auto Wreckers Inc, the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed h name thereto by like order.

John A Tartaglia
JOHN A TARTAGLIA
NOTARY PUBLIC
WESTCHESTER COUNTY
#02TA 465843
COMMISSION EXPIRES MARCH 30, 1985

STATE OF NEW YORK, COUNTY OF ss:

On the day of 19 , before me personally came the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No. ; that he knows to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed h name as witness thereto.

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS
TITLE NO.

HUNTS POINT AUTO WRECKERS

TO

P.D.J. SIMONE REALTY COMPANY

SECTION
BLOCK 3017
LOT 29
COUNTY OR BOROUGH Bronx

Recorded at Request of COMMONWEALTH LAND TITLE INSURANCE COMPANY

RETURN BY MAIL TO:

TARTAGLIA, BROWN & MARX
495 New Rochelle Road
Bronxville, N.Y. 10708

Zip No. 10708

STANDARD FORM OF NEW YORK BOARD OF TITLE UNDERWRITERS
Distributed by
COMMONWEALTH LAND
TITLE INSURANCE COMPANY

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE

BRONX COUNTY
3019 29
22

REC. FEE A-12-84
SST $ -0-
RPT $ 4244

ECHO Enforcement and Compliance History Online

Detailed Facility Report

Facility Summary

LKQ HUNTS POINT AUTO PARTS
BRONX, NY 10459

FRS (Facility Registry Service) ID: 110009001793
EPA Region: 02
Latitude: 40.82994
Longitude: -73.88521
Locational Data Source: FRS
Industry:
Indian Country: N

Enforcement and Compliance Summary

Statute	CAA
Insp (5 Years)	–
Date of Last Inspection	–
Current Compliance Status	
Qtrs with NC (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	–
Formal Enforcement Actions (5 years)	–
Penalties from Formal Enforcement Actions (5 years)	–
EPA Cases (5 years)	–
Penalties from EPA Cases (5 years)	–

Statute	CWA
Insp (5 Years)	–
Date of Last Inspection	06/19/2001
Current Compliance Status	**Significant Noncompliance**
Qtrs with NC (of 12)	5
Qtrs with Significant Violation	2
Informal Enforcement Actions (5 years)	–
Formal Enforcement Actions (5 years)	–
Penalties from Formal Enforcement Actions (5 years)	–
EPA Cases (5 years)	–
Penalties from EPA Cases (5 years)	–
Statute	RCRA
Insp (5 Years)	–
Date of Last Inspection	–
Current Compliance Status	**No Violation**
Qtrs with NC (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	–
Formal Enforcement Actions (5 years)	–
Penalties from Formal Enforcement Actions (5 years)	–
EPA Cases (5 years)	–
Penalties from EPA Cases (5 years)	–

Regulatory Information

Clean Air Act (CAA): Operating Minor (NY0000002600500852)
Clean Water Act (CWA): Minor, (NYU700260), Minor, Permit Expired (NYR00B428), Minor, (NYU700270)
Resource Conservation and Recovery Act (RCRA): Active (H) VSQG (NYD083059899)
Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information
Greenhouse Gas Emissions (eGGRT): No Information
Toxic Releases (TRI): No Information
Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110009001793					N	40.82994	-73.88521
AIR	CAA	NY0000002600500852	Minor Emissions	Operating	CAACFC		N		
ICP	CWA	NYU700260	Minor: Unpermitted Facility				N	40.828178	-73.884741
ICP	CWA	NYR00B428	Minor: General Permit Covered Facility	Expired	Storm Water Industrial	09/30/2017	N	40.829	-73.884

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
ICP	CWA	NYU700270	Minor: Unpermitted Facility				N	40.828178	-73.884741
RCR	RCRA	NYD083059899	VSQG	Active (H)			N	40.83133	-73.884786

Facility Address

System	Statute	Identifier	Facility Name	Facility Address
FRS		110009001793	LKQ HUNTS POINT AUTO PARTS	1480 SHERIDAN EXPRESSWAY, BRONX, NY 10459
AIR	CAA	NY0000002600500852	LKQ HUNTS POINT AUTO PARTS	1480 SHERIDAN EXPRESSWAY, BRONX, NY 10459
ICP	CWA	NYU700260	LKQ HUNTS POINT AUTO PARTS	PLT. 2, BRONX, NY 10459
ICP	CWA	NYR00B428	LKQ HUNTS POINT AUTO PARTS CORP	1480 SHERIDAN EXPY, BRONX, NY 10459
ICP	CWA	NYU700270	LKQ HUNTS POINT AUTO PARTS	PLT. 1, BRONX, NY 10459
RCR	RCRA	NYD083059899	HUNTS POINT AUTO WRECKERS	1480 SHERIDAN EXPWY, BRONX, NY 10473

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Desc
AIR	NY0000002600500852	5015	Motor Vehicle Parts, Used
ICP	NYR00B428	5015	Motor Vehicle Parts, Used

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
AIR	NY0000002600500852	999999	

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

Enforcement and Compliance

Compliance Monitoring History (5 years)

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding
No data records returned						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CAA	NY0000002600500852	No	10/27/2018	0	10/26/2018
CWA	NYU700260	No	06/30/2018	0	10/26/2018
CWA	NYR00B428	Yes	06/30/2018	5	10/26/2018
CWA	NYU700270	No	06/30/2018	0	10/26/2018
RCRA	NYD083059899	No	10/27/2018	0	10/26/2018

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
CAA (Source ID: NY0000002600500852)		01/01-03/31/16	04/01-06/30/16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17	07/01-09/30/17	10/01-12/31/17	01/01-03/31/18	04/01-06/30/18	07/01-09/30/18	10/01-12/31/18

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
	Facility-Level Status	**No Violation**											
	HPV History												

	Violation Type	Agency	Programs	Pollutants

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
CWA (Source ID: NYU700260)		07/01-09/30/15	10/01-12/31/15	01/01-03/31/16	04/01-06/30/16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17	07/01-09/30/17	10/01-12/31/17	01/01-03/31/18	04/01-06/30/18	07/01-10/26/18
	Facility-Level Status	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**Und**
	SNC (Significant Non-compliance)/RNC (Reportable Non-Compliance) History													
CWA (Source ID: NYR00B428)		07/01-09/30/15	10/01-12/31/15	01/01-03/31/16	04/01-06/30/16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17	07/01-09/30/17	10/01-12/31/17	01/01-03/31/18	04/01-06/30/18	07/01-10/26/18
	Facility-Level Status	**No Violation**	**No Violation**	**Violation**	**No Violation**	**No Violation**	**No Violation**	**Violation**	**No Violation**	**No Violation**	**No Violation**	**SNC/Cat 1**	**SNC/Cat 1**	**Violation**
	SNC (Significant Non-compliance)/RNC (Reportable Non-Compliance) History			V(NonRNCV)				V(NonRNCV)				D(DMR NR)	D(DMR NR)	
	Permit Schedule Violations													
CWA	Schedule Event achieved late but reported: Status/Progress Report			02-29-16-03-07-16										
CWA	Schedule Event achieved late but reported: Status/Progress Report							02-28-17-03-03-17						
CWA	Schedule Event unachieved and not reported: Status/Progress Report											02-28-18	→	→
CWA	Schedule Event unachieved and not reported: Status/Progress Report	02-28-15	→	→	→	→	→	→	→	→	→	→	→	→
CWA (Source ID: NYU700270)		07/01-09/30/15	10/01-12/31/15	01/01-03/31/16	04/01-06/30/16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17	07/01-09/30/17	10/01-12/31/17	01/01-03/31/18	04/01-06/30/18	07/01-10/26/18
	Facility-Level Status	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**Und**
	SNC (Significant Non-compliance)/RNC (Reportable Non-Compliance) History													

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: NYD083059899)		01/01-03/31/16	04/01-06/30/16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17	07/01-09/30/17	10/01-12/31/17	01/01-03/31/18	04/01-06/30/18	07/01-09/30/18	10/01-12/31/18
RCRA	**Facility-Level Status**												

Informal Enforcement Actions (5 Years)

Statute	System	Source ID	Type of Action	Lead Agency	Date
No data records returned					

Formal Enforcement Actions (5 Years)

Statute	System	Law/Section	Source ID	Action Type	Case No.	Lead Agency	Case Name	Issued/Filed Date	Settlements/Actions	Settlement/Action Date	Federal Penalty	State/Local Penalty	SEP Cost	Comp Action Cost
No data records returned														

Environmental Conditions

Water Quality

Permit ID	Combined Sewer System?	Number of CSO (Combined Sewer Overflow) Outfalls	12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Waterbody Name (ICIS (Integrated Compliance Information System))	Impaired Waters	Impaired Class	Causes of Impairment(s) by Group(s)	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
NYR00B428			020301020103	Lower Bronx River	BRONX RIVER	No		NUTRIENTS | ORGANIC ENRICHMENT/OXYGEN DEPLETION | OTHER CAUSE | PATHOGENS | TRASH	Yes
NYU700260			020301020103	Lower Bronx River		No		HABITAT ALTERATIONS | NUTRIENTS | ORGANIC ENRICHMENT/OXYGEN DEPLETION | OTHER CAUSE | PATHOGENS | TRASH	Yes
NYU700270			020301020103	Lower Bronx River		No		HABITAT ALTERATIONS | NUTRIENTS | ORGANIC ENRICHMENT/OXYGEN DEPLETION | OTHER CAUSE | PATHOGENS | TRASH	Yes

Waterbody Designated Uses

Reach Code	Waterbody Name	Exceptional Use	Recreational Use	Aquatic Life Use	Shellfish Use	Beach Closure Within Last Year	Beach Closure Within Last Two Years
02030102000258	Bronx River	No	Yes	Yes	No	No	No
02030102000258	Bronx River	No	Yes	Yes	No	No	No
02030102000258	Bronx River	No	Yes	Yes	No	No	No

Air Quality

Nonattainment Area?	Pollutant(s)	Applicable Nonattainment Standard(s)
Yes	Ozone	8-Hour Ozone (2008)
No	Lead	
Yes	Particulate Matter	PM-2.5 (1997), PM-2.5 (2006)
No	Sulfur Dioxide	

Pollutants

Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-site Releases	Total Off-site Releases
No data records returned								

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name
No data records returned

Demographic Profile

Demographic Profile of Surrounding Area (3 Miles)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 US Census and American Community Survey data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA Locational Reference Table (LRT) when available.

Radius of Area:	3	Land Area:	86%	Households in Area:	372,898
Center Latitude:	40.82989	Water Area:	14%	Housing Units in Area:	394,635
Center Longitude:	-73.88466	Population Density:	45,661/sq.mi.	Households on Public Assistance:	34,463
Total Persons:	1,101,614	Percent Minority:	94%	Persons Below Poverty Level:	625,763

Race Breakdown	Persons (%)	Age Breakdown	Persons (%)
White:	271,273 (25%)	Child 5 years and younger:	85,005 (8%)
African-American:	380,013 (35%)	Minors 17 years and younger:	303,555 (28%)

Race Breakdown	Persons (%)	Age Breakdown	Persons (%)
Hispanic-Origin:	680,201 (62%)	Adults 18 years and older:	798,059 (72%)
Asian/Pacific Islander:	37,144 (3%)	Seniors 65 years and older:	101,090 (9%)
American Indian:	16,778 (2%)		
Other/Multiracial:	396,406 (36%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown	Households (%)
Less than 9th Grade:	119,542 (18.4%)	Less than $15,000:	109,516 (29.9%)
9th through 12th Grade:	116,718 (17.96%)	$15,000 - $25,000:	56,100 (15.31%)
High School Diploma:	180,271 (27.74%)	$25,000 - $50,000:	96,090 (26.23%)
Some College/2-yr:	142,133 (21.87%)	$50,000 - $75,000:	53,351 (14.56%)
B.S./B.A. or More:	91,114 (14.02%)	Greater than $75,000:	51,261 (13.99%)

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Inquiry Number: 05468323.7R
OCTOBER 31, 2018

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY

BRONX, NY 10459

RESEARCH SOURCE

Source 1: BRONX COUNTY RECORDER'S OFFICE

Source 2: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	SHERIDAN BLVD APARTMENTS LLC
Title received from:	W N F HOLDING CORP
Date Executed:	10/31/2017
Date Recorded:	11/17/2017
Book:	NA
Page:	NA
Volume:	NA
Instrument#:	217000424928
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description:	LOT AREA ACRES NUMBER: .5403 LAND USE DESCRIPTION: HEAVY INDUSTRIAL
Current Owner:	SHERIDAN BLVD APARTMENTS LLC
Property Identifiers:	03017-0060
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument:	NONE IDENTIFIED
First Party:	
Second Party:	
Date Recorded:	
Instrument #:	
Book:	
Page:	
Comments:	

DEED EXHIBIT

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument.The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2017110101439001004E1C35

RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 4**

Document ID: 2017110101439001 Document Date: 10-31-2017 Preparation Date: 11-15-2017
Document Type: DEED
Document Page Count: 3

PRESENTER:
EASTERN ABSTRACT CORP
2500 WILLIAMSBRIDGE ROAD
E-B-24042
BRONX, NY 10469
718-654-2000
LISA@EASTERNABSTRACTNY.COM

RETURN TO:
STANLEY SCHLEIN,ESQ.
481 KINGS AVENUE
BRONX, NY 10464

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BRONX	3017	60	Entire Lot	1428 EDGEWATER ROAD

Property Type: COMMERCIAL REAL ESTATE

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
W.N.F. HOLDING CORPORATION
1428-1432 SHERIDAN EXPRESSWAY
BRONX, NY 10459

GRANTEE/BUYER:
SHERIDAN BLVD APARTMENTS LLC
1428-1432 SHERIDAN EXPRESSWAY
BRONX, NY 10459

FEES AND TAXES

Mortgage :

Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	52.00
Affidavit Fee:	$	0.00

Filing Fee:	$	250.00
NYC Real Property Transfer Tax:	$	78,750.00
NYS Real Estate Transfer Tax:	$	12,000.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 11-17-2017 13:15
City Register File No.(CRFN): **2017000424928**

City Register Official Signature

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 31st day of October , 2017

BETWEEN

W.N.F. Holding Corp
4 Elba Place
Scarsdale, NY 10583

party of the first part, and

Sheridan Blvd Apartments LLC
3 2nd Street
Englewood Cliff, NJ 07632

party of the second part,

WITNESSETH, that the party of the first part, in consideration of

paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever, Three Million ($ 3,000,000.00) dollars

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the

County of Bronx, City of New York, State of New York, bounded and described as follows:

PLEASE SEEE SCHEDULE A ANNEXED HERETO AND MADE A PART HEREOF

BEING the same premises conveyed to W.N.F. Hold Corp from Hold Contracting Corp. by deed dated May 31, 1992 and recorded October 9, 1992 in Reel 1124 Page 771.

SAID PREMISES being known and designated by the street address 1428-1432 Sheridan Expressway, Bronx, New York.

This conveyance has been made with the unanimous consent in writing of all the stockholders of the party of the first.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose. The word "party" shall be construed as if it read "parties" when ever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

Joan M. Falco

Joan M. Falco, President

ERICA A. DALESANDRO
NOTARY PUBLIC
STATE OF NEW JERSEY
MY COMMISSION EXPIRES SEP 18, 2022

Standard N.Y.B.T.U. Form 8002 - Bargain and Sale Deed, with Covenant against Grantor's Acts – Uniform Acknowledgment
Form 3290

ACKNOWLEDGEMENT TAKEN IN NEW YORK STATE

State of New York, County of , ss:

On the day of in the year , before me, the undersigned, personally appeared

,

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

NOTARY PUBLIC

ACKNOWLEDGEMENT TAKEN IN NEW YORK STATE

State of New York, County of , ss:

On the day of in the year , before me, the undersigned, personally appeared

,

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

NOTARY PUBLIC

ACKNOWLEDGEMENT BY SUBSCRIBING WITNESS TAKEN IN NEW YORK STATE

State of New York, County of Bergen, ss:

On the 31st day of October in the year 2017 before me, the undersigned, a Notary Public in and for said State, personally appeared ,

the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he/she/they reside(s) in (if the place of residence is in a city, include the street and street number if any, thereof); that he/she/they know(s)

to be the individual described in and who executed the foregoing instrument; that said subscribing witness was present and saw said

execute the same; and that said witness at the same time subscribed his/her/their name(s) as a witness thereto.

NOTARY PUBLIC

ERICA A. DALESANDRO
NOTARY PUBLIC
STATE OF NEW JERSEY
MY COMMISSION EXPIRES SEP 18, 2022

ACKNOWLEDGEMENT TAKEN OUTSIDE NEW YORK STATE

State of New Jersey, County of Bergen, ss:

On the 31st day of October in the year 2017, before me, the undersigned personally appeared Joan M. Falco

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual make such appearance before the undersigned in the

(add the city or political subdivision and the state or country or other place the acknowledgement was taken).

NOTARY PUBLIC

ERICA A. DALESANDRO
NOTARY PUBLIC
STATE OF NEW JERSEY
MY COMMISSION EXPIRES SEP 18, 2022

Bargain and Sale Deed With Covenants

W.N.F. Holding Corp

TO

Sheridan Blvd Apartments LLC

Title No. E-B-24042

COUNTY: Bronx

TOWN/CITY: New York

PROPERTY ADDRESS: 1428-1432 Sheridan Expressway

SECTION:

BLOCK: 3017

LOT: 60

RETURN BY MAIL TO:

Stanley Kalmon Schlein, Esq.
481 Kings Avenue
Bronx, NY 10464

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER



2017110101439001004SD2B4

SUPPORTING DOCUMENT COVER PAGE **PAGE 1 OF 1**

Document ID: 2017110101439001 Document Date: 10-31-2017 Preparation Date: 11-15-2017
Document Type: DEED

ASSOCIATED TAX FORM ID: 2017103100126

SUPPORTING DOCUMENTS SUBMITTED:

	Page Count
RP - 5217 REAL PROPERTY TRANSFER REPORT	2

FOR CITY USE ONLY

C1. County Code | | C2. Date Deed Recorded | | / | / | (Month / Day / Year)

C3. Book OR C5. CRFN | | C4. Page | |

REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

PROPERTY INFORMATION

1. Property Location: 1428 (STREET NUMBER) | EDGEWATER ROAD (STREET NAME) | BRONX (BOROUGH) | 10459 (ZIP CODE)

2. Buyer Name: SHERIDAN BLVD APARTMENTS LLC (LAST NAME / COMPANY) | (FIRST NAME)

(LAST NAME / COMPANY) | (FIRST NAME)

3. Tax Billing Address: Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form) (LAST NAME / COMPANY) | (FIRST NAME)

(STREET NUMBER AND STREET NAME) | (CITY OR TOWN) | (STATE) | (ZIP CODE)

4. Indicate the number of Assessment Roll parcels transferred on the deed: 1 (# of Parcels) OR ☐ Part of a Parcel

4A. Planning Board Approval - N/A for NYC

4B. Agricultural District Notice - N/A for NYC

5. Deed Property Size: | (FRONT FEET) X | (DEPTH) OR | (ACRES)

Check the boxes below as they apply:

6. Ownership Type is Condominium ☐

7. New Construction on Vacant Land ☐

8. Seller Name: W.N.F. HOLDING CORPORATION (LAST NAME / COMPANY) | (FIRST NAME)

(LAST NAME / COMPANY) | (FIRST NAME)

9. Check the box below which most accurately describes the use of the property at the time of sale:

A ☐ One Family Residential
B ☐ 2 or 3 Family Residential
C ☐ Residential Vacant Land
D ☐ Non-Residential Vacant Land
E ☑ Commercial
F ☐ Apartment
G ☐ Entertainment / Amusement
H ☐ Community Service
I ☐ Industrial
J ☐ Public Service

SALE INFORMATION

10. Sale Contract Date: 4 / 15 / 2017 (Month / Day / Year)

11. Date of Sale / Transfer: 10 / 31 / 2017 (Month / Day / Year)

12. Full Sale Price $ 3,000,000

(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) *Please round to the nearest whole dollar amount.*

13. Indicate the value of personal property included in the sale

14. Check one or more of these conditions as applicable to transfer:

A ☐ Sale Between Relatives or Former Relatives
B ☐ Sale Between Related Companies or Partners in Business
C ☐ One of the Buyers is also a Seller
D ☐ Buyer or Seller is Government Agency or Lending Institution
E ☐ Deed Type **not** Warranty or Bargain and Sale (Specify Below)
F ☐ Sale of Fractional or Less than Fee Interest (Specify Below)
G ☐ Significant Change in Property Between Taxable Status and Sale Dates
H ☐ Sale of Business is Included in Sale Price
I ☐ Other Unusual Factors Affecting Sale Price (Specify Below)
J ☑ None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class: F1

16. Total Assessed Value (of all parcels in transfer): 462,600

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

BRONX 3017 60

2017103100126201102

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER		BUYER'S ATTORNEY	
BUYER SIGNATURE	DATE: 10/31/17	LAST NAME: SCHLEIN	FIRST NAME: STANLEY
1428-1432 SHERIDAN EXPRESSWAY		917	859-3186
STREET NUMBER / STREET NAME (AFTER SALE)		AREA CODE	TELEPHONE NUMBER
BRONX	NY / 10459	SELLER	
CITY OR TOWN	STATE / ZIP CODE	SELLER SIGNATURE	DATE: 10/31/17

2017103100126201

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Inquiry Number: 05468323.7R
OCTOBER 31, 2018

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY

BRONX, NY 10459

RESEARCH SOURCE

Source 1: BRONX COUNTY RECORDER'S OFFICE

Source 2: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	NA
Title is vested in:	WNF HOLDING CORPORATION
Title received from:	NA
Date Executed:	NA
Date Recorded:	PRIOR TO 1980
Book:	NA
Page:	NA
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NO DEED IMAGE

Legal Description: LOT AREA ACRES NUMBER: .3521
LAND USE DESCRIPTION: VACANT LAND (NEC)

Current Owner: WNF HOLDING CORPORATION

Property Identifiers: 03017-0068

Comments: NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument:	NONE IDENTIFIED
First Party:	
Second Party:	
Date Recorded:	
Instrument #:	
Book:	
Page:	
Comments:	

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Inquiry Number: 05468323.7R
OCTOBER 31, 2018

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A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

RESEARCH SOURCE

Source 1: BRONX COUNTY RECORDER'S OFFICE

Source 2: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	BARGAIN AND SALE DEED
Title is vested in:	WEST FARMS REALTY LLC
Title received from:	1460 SHERIDAN EXPRESSWAY CORPORATION
Date Executed:	11/15/1999
Date Recorded:	01/03/2000
Book:	1728
Page:	185
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description:	LOT AREA ACRES NUMBER: .8209 LAND USE DESCRIPTION: GARAGE
Current Owner:	WEST FARMS REALTY LLC
Property Identifiers:	03017-0074
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument:	NONE IDENTIFIED
First Party:	
Second Party:	
Date Recorded:	
Instrument #:	
Book:	
Page:	
Comments:	

DEED EXHIBIT

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 5th day of November, in the year ninety-nine

BETWEEN 1460 Sheridan Expressway Corp., a New York Corporation with its principal place of business located at 1460 Sheridan Expressway, Bronx, New York 10459

party of the first part, and West Farms Realty LLC, a New York Limited Liability Company with its principal place of business located at c/o Simone Realty , 1000 Main Street, New Rochelle, New York

party of the second part.

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough and County of the Bronx, City and State of New York, more particularly described as follows:

BEGINNING at the corner formed by the intersection of the easterly side of Sheridan Expressway (Bronx River Expressway) as legally opened May 25, 1950, with the southerly side of E. 172nd Street;

THENCE easterly along the southerly side of E. 172nd Street, a distance of 134.88 feet to the pier and bulkhead lines of the Bronx River, as approved by the Secretary of War on August 9, 1940;

THENCE southerly along said pier and bulkhead line a distance of 254.43 feet to the division line of land conveyed to WNF Holding Corp. by deed dated June 10, 1997 and recorded August 14, 1997 in Reel 1490 Page 2379 in the Bronx County Register's Office;

THENCE westerly along said last mentioned division line a distance of 180.98 feet to the easterly side of Sheridan Expressway;

THENCE northerly along said easterly side of Sheridan Expressway 265.11 feet to the corner first above-mentioned, the point or place of BEGINNING.

This conveyance has been consented to by two-thirds of all the shareholders of 1460 Sheridan Expressway Corp. at a meeting duly noticed and called for the purpose of obtaining said consent.

Together with all rights, title and interest to all the lands now or formerly under the waters of the Bronx

TOGETHER with all rights, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

TOGETHER with all the right, title and interest of the party of the first part, of in and to The Street in front of and adjoining said premises

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

1460 Sheridan Expressway Corp.

BY: _____, President

ALBERT GUBITZ

REEL 1728 PG 0186

* STATE OF NEW YORK)
COUNTY OF [illegible]) ss.:

On the 5 day of [illegible] in the year 1999 before me, the undersigned, personally appeared BRAM COHEN, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

EUGENE LEW
Notary Public, State of New York
No. 02LE7525315
Qualified in Nassau County
Commission Expires July 31, 2000

Signature and Office of individual taking acknowledgment

* STATE OF NEW YORK)
COUNTY OF) ss.:

On the ___ day of _____ in the year _____ before me the undersigned, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and Office of individual taking acknowledgment

* For acknowledgments taken in New York State.

** State, District of Columbia, Territory, Possession, or Foreign Country

_____) ss.:

On the ___ day of _____ in the year _____ before me, the undersigned, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the _____. (insert the city or other political subdivision and the state or country or other place the acknowledgment was taken).

Signature and Office of individual taking acknowledgment

** For acknowledgments taken outside of New York State.

Bargain and Sale Deed
WITH COVENANT AGAINST GRANTOR'S ACTS
Title No. [illegible]

1460 SHERIDAN EXPRESSWAY CORP.

TO

WEST FARMS REALTY LLC

Distributed by
First American Title Insurance Company of New York

SECTION 11
BLOCK 3017
LOT 74
COUNTY OR TOWN Bronx
1460 Sheridan Expressway

Recorded At Request of
First American Title Insurance Company of New York
RETURN BY MAIL TO:

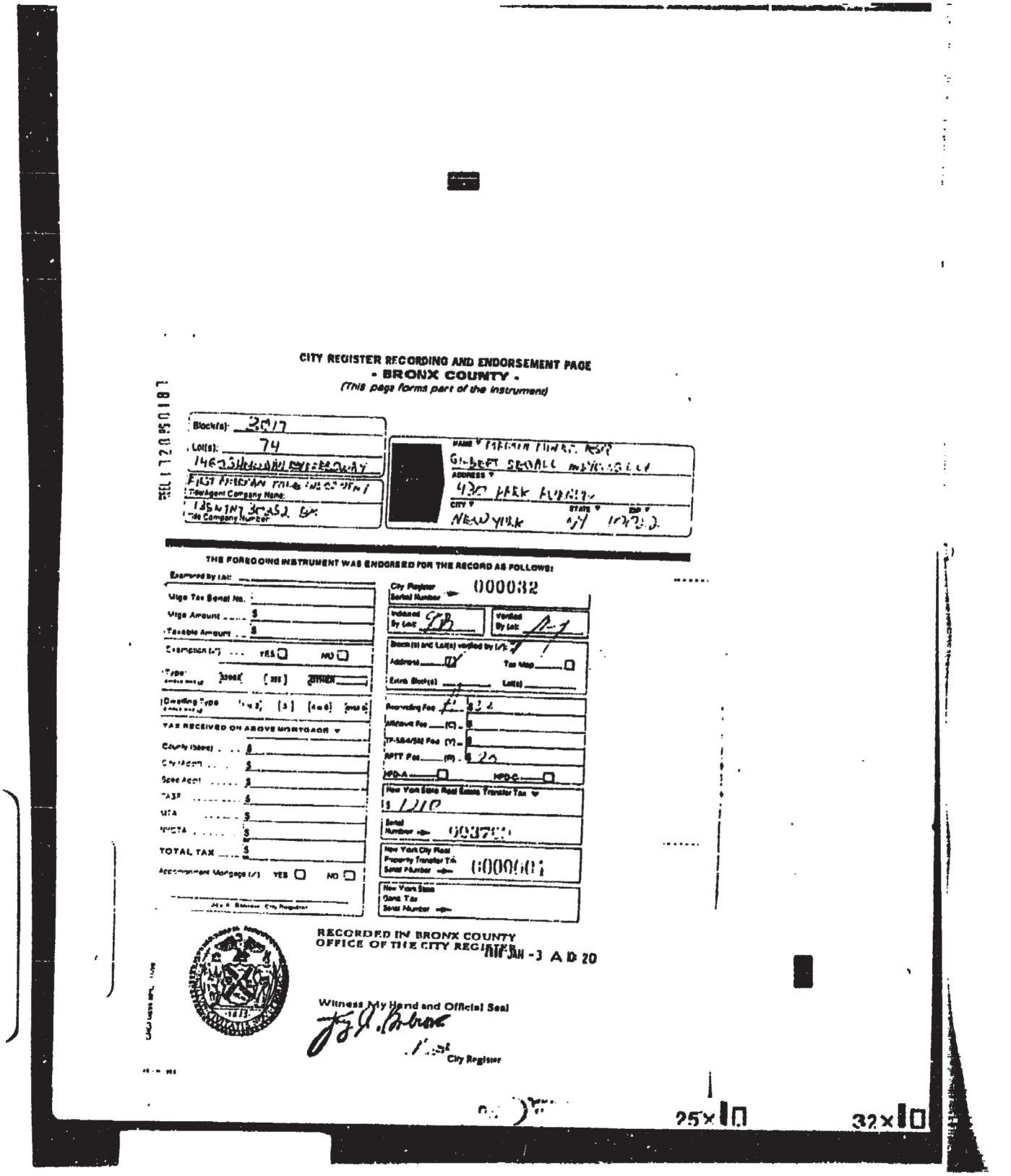
Martin Miner, Esq.
Gilbert Segall and Young LLP
430 Park Avenue
New York, New York 10022

Zip No.

SPACE THIS WAS NOT TO BE WRITTEN ABOVE

25x10 32x10

25x11



CITY REGISTER RECORDING AND ENDORSEMENT PAGE
- BRONX COUNTY -
(This page forms part of the instrument)

Block(s): 2917
Lot(s): 74
146 3 HARLEM RIVER BROADWAY
FIRST AMERICAN TITLE INSURANCE
Title Company Number

NAME: FIRST AMERICAN TITLE INS. CO.
GILBERT SEGALL ASSOCIATES
ADDRESS: 420 PARK AVENUE
CITY: NEW YORK STATE: NY ZIP: 10022

THE FOREGOING INSTRUMENT WAS ENDORSED FOR THE RECORD AS FOLLOWS:

Endorsed by Lot:
Mtge Tax Serial No.
Mtge Amount $
Taxable Amount $
Exemption (Y) YES NO
Type: [2 FAM] [3] [4 & 5] OTHER
Dwelling Type [1 FAM] [2] [3] [4 & 5] [OTHER]
TAX RECEIVED ON ABOVE MORTGAGE
County (Basic) $
City Addn $
Spec Addn $
TASF $
MTA $
NYCTA $
TOTAL TAX $
Assignment/Mortgage (Y) YES NO

City Register Serial Number: 000032
Indexed By Lot: GB
Verified By Lot:
Block(s) and Lot(s) verified by Lot:
Address
Tax Map
Extra Block(s) Lot(s)
Recording Fee $ 53.00
Affidavit Fee (C) $
TP-584/584 Fee (Y) $
RPTT Fee (R) $ 2.50
MDA NYCHA
New York State Real Estate Transfer Tax $ 1210
Serial Number 003701
New York City Real Property Transfer Tax Serial Number 000001
New York State Gains Tax Serial Number

RECORDED IN BRONX COUNTY
OFFICE OF THE CITY REGISTER
FILED JAN -3 A D 20

Witness My Hand and Official Seal

City Register

25 x 10 32 x 10

Appendix C

Appendix C

Records Request Results

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 9702732

SPILL NAME: HUNTS POINT AUTO PARTS **DEC LEAD:** RCEDWARD

SPILL DATE: 06/03/1997 **SPILL TIME:** 2:30 pm

CALL RECEIVED DATE: 06/03/1997 **RECEIVED TIME:** 4:13 pm

SPILL LOCATION

PLACE: HUNTS POINT AUTO PARTS **COUNTY:** Bronx

STREET: 1480 SHERDIAN EXPRESSWAY **TOWN/CITY:** New York City

COMMUNITY: BRONX

CONTACT: JOE SIMONE **CONTACT PHONE:** (718) 893-0303

CONT. FACTOR: Tank Failure **SPILL REPORTED BY:** Tank Tester

FACILITY TYPE: Commercial/Industrial **WATERBODY:**

CALLER REMARKS:

OLD TANKS WHICH WERE FILLED WITH WATER YEARS AGO WERE BEING

PRESSURE TESTED PER THE FIRE DEPT FOR TEN YEAR TEST

TANKS ORIGINALLY WERE FOR DIESEL AND GASOILNE

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
diesel	Petroleum	0 G	0 G	Soil,
gasoline	Petroleum	0 G	0 G	Soil,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
HUNTS POINT AUTO PARTS	1480 SHERDIAN EXPRESSWAY BRONX NY	JOE SIMONE (718) 893-0303

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"
3x550. Closed with water more than 5 years ago. FD required 10 year test because they were still listed as active. All 3 tanl
(2 gas & 1 diesel) failed.

4/12/04-Vought-Spill transferred from Tibbe to Rommel as per Rommel.

11/28/05 -Edwards - per file - Tanks removed. Remediation report and analytical results submitted to DEC 8/97.

PIN **T & A** **COST CENTER**

CLASS: B3 **CLOSE DATE:** 11/28/2005 **MEETS STANDARDS:** True

Created On: 06/03/1997

Date Printed: 10/5/2018 Last Updated: 01/31/2006

2-6005-00852

BUREAU OF WATER PERMITS
MAR 2 9 2007

9100215042

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits, 4th Floor
625 Broadway, Albany, New York 12233-3505
Phone: (518) 402-8111 . Fax: (518) 402-9029
Website: www.dec.state.ny.us

NYR 00 B428
(for DEC use only)

Notice of Intent or Termination

For Stormwater Discharges Associated with Industrial Activity under the State Pollutant Discharge Elimination System (SPDES) Multi-Sector General Permit GP-0-06-002

All Sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must *read and understand the conditions* of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this Notice of Intent or Termination (NOIT) Form. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

"IMPORTANT - PRINT CAPITAL LETTERS USING BLACK INK. AVOID CONTACT WITH THE EDGE OF THE BOXES. FILL IN CIRCLES COMPLETELY AND DO NOT USE CHECK MARKS. OWNER/OPERATOR MUST SIGN FORM."

Owner/Operator Information

O/O Name
LKQ HUNTS POINT AUTO PARTS CORP

O/O Street Address
1480 SHERIDAN EXPRESSWAY

O/O City
BRONX

O/O State
NY

O/O Zip
10459-2106

Contact Information

Contact First Name
LOUIS

Contact Last Name
SCARNATI

Contact Phone
718-589-4444

Contact Fax
718-542-3421

Contact eMail
JRACOSTA@LKQCORP.COM

CS 6/6, 6/19X, 8/29B

Benchmark M1 1 outfall @001

0250215049

Facility Information

Facility Name
LKQ HUNTS POINT AUTO PARTS CORP

Facility Street Address
1480 SHERIDAN EXPRESSWAY

Facility City
BRONX

Facility State
NY

Facility Zip
10459 -

Facility County
BRONX

Name of Nearest Cross Street
WESTCHESTER AVE & SHERIDAN EXPRESSWAY

Distance to Nearest Cross Street (feet)
150

Direction to Nearest Cross Street
○ North ● South ○ East ○ West

---

1. Permit I.D Number (for renewals, modifications or terminations) NYR00B428

2. Reason for Submittal:
   - ○ Coverage for a new facility (not previously permitted)
   - ● Permit Renewal
   - ○ Modification (There has been a change in information since the earlier submission)
   - ○ Want to terminate general stormwater permit coverage

3. Provide the Geographic Coordinates for the facility in NYTM units.

   594039 X Coordinates (Easting)

   4520282 Y Coordinates (Northing)

These coordinates can be obtained through the NYSDEC Stormwater Interactive Map on the DEC Website at: http://www.dec.state.ny.us/website/imsmaps/stormwater/viewer.htm
Directions: Go to the above website. Zoom into your project location such that you can accurately click on the center of your facility. Once you have located your facility, go to the drop-down menu on the left and choose "Get Coordinates". Click on the center of your facility and a small window containing the X, Y coordinates in NYTM units will pop up. Transcribe these coordinates into the spaces above. For problems with the interactive map, please try the help function.

4. Identify all applicable Industrial Activities from the Industrial Sectors shown below that are located within areas subject to the stormwater discharges covered under this permit. Check all that apply to your facility.

Sampling Notes	Mark all that apply	SIC Code or Activity Code	Activity Represented
		Sector A: Timber Products	
B,C	○	2411	Log Storage and Handling (Wet deck storage areas are only authorized if no chemical additives are used in the spray water or applied to the logs).
B	○	2421	General Sawmills and Planning Mills
B	○	2426	Hardwood Dimension and Flooring Mills
B	○	2429	Special Product Sawmills, Not Elsewhere
B	○	2431-2439 (except 2434 - see sector W)	Millwork, Veneer, Plywood, and Structural Wood.
B	○	2441, 2448, 2449	Wood Containers
B	○	2451, 2452	Wood Buildings and Mobile Homes
B	○	2491	Wood Preserving
B	○	2493	Reconstituted Wood Products
B	○	2499	Wood Products, Not Elsewhere Classified
		Sector B: Paper and Allied Products	
	○	2611	Pulp Mills
	○	2621	Paper Mills
B	○	2631	Paperboard Mills
	○	2652-2657	Paperboard Containers and Boxes
	○	2671-2679	Converted Paper and Paperboard Products, Except Containers and Boxes
		Sector C: Chemical and Allied Products	
B	○	2812-2819	Industrial Inorganic Chemicals.
B	○	2821-2824	Plastics Materials and Synthetic Resins, Synthetic Rubber, Cellulosic and Other Manmade Fibers Except Glass.
	○	2833-2836	Medicinal Chemicals and Botanical Products; Pharmaceutical Preparations; In Vitro and In Vivo Diagnostic Substances; Biological Products, Except Diagnostic Substances.
B	○	2841-2844	Soaps, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations.
	○	2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products.
	○	2861-2869	Industrial Organic Chemicals.
B,C	○	2873-2879	Agricultural Chemicals.
	○	2891-2899	Miscellaneous Chemical Products.
	○	3952 (limited to list)	Inks and Paints, Including China Painting Enamels, India Ink, Drawing Ink, Platinum Paints for Burnt Wood or Leather Work, Paints for China Painting, Artist's Paints and Artist's Watercolors.
		Sector D: Asphalt Paving and Roofing Materials and Lubricants	
B,C	○	2951, 2952	Asphalt Paving and Roofing Materials
	○	2992, 2999	Miscellaneous Products of Petroleum and Coal
		Sector E: Glass Clay, Cement, Concrete, and Gypsum Products	
	○	3211	Flat Glass
	○	3221, 3229	Glass and Glassware, Pressed or Blown
	○	3231	Glass Products Made of Purchased Glass
C	○	3241	Hydraulic Cement
B	○	3251-3259	Structural Clay Products
B	○	3261-3269	Pottery and Related Products
B,C	○	3271-3275	Concrete, Gypsum and Plaster
	○	3281	Cut Stone and Stone Products
	○	3291-3299	Abrasive, Asbestos, and Miscellaneous Non-metallic Mineral Products

Sampling Notes	Mark all that apply	SIC Code or Activity Code	Activity Represented
		Sector F: Primary Metals	
B	○	3312-3317	Steel Works, Blast Furnaces, and Rolling and Finishing Mills
B	○	3321-3325	Iron and Steel Foundries
	○	3331-3339	Primary Smelting and Refining of Nonferrous Metals
	○	3341	Secondary Smelting and Refining of Nonferrous Metals
B	○	3351-3357	Rolling, Drawing, and Extruding of Nonferrous
B	○	3363-3369	Nonferrous Foundries (Castings)
	○	3398, 3399	Miscellaneous Primary Metal Products
		Sector G: Metal Mining (Ore Mining and Dressing)	
B	○	1011	Iron Ores
B	○	1021	Copper Ores
B	○	1031	Lead and Zinc Ores
B	○	1041, 1044	Gold and Silver Ores
B	○	1061	Ferroalloy Ores, Except Vanadium
B	○	1081	Metal Mining Services
B	○	1094, 1099	Miscellaneous Metal Ores
		Sector H: Coal Mines and Coal Mining Related Facilities	
		Sector I: Oil and Gas Extraction and Refining	
B	○	1311	Crude Petroleum and Natural Gas
B	○	1321	Natural Gas Liquids
B	○	1381-1389	Oil and Gas Field Services
B	○	2911	Petroleum Refineries
		Sector J: Mineral Mining and Dressing	
B	○	1411	Dimension Stone
B,C	○	1422-1429	Crushed and Broken Stone, Including Rip Rap
B,C	○	1442, 1446	Sand and Gravel
	○	1455, 1459	Clay, Ceramic, and Refractory Materials
	○	1474-1479	Chemical and Fertilizer Mineral Mining
B	○	1481	Nonmetallic Minerals Services, Except Fuels
B	○	1499	Miscellaneous Nonmetallic Minerals, Except Fuels
		Sector K: Hazardous Waste Treatment, Storage, or Disposal Facilities	
B,C	○	HZ	Hazardous Waste Treatment, Storage or Disposal
		Sector L: Land Fills and Land Application Sites	
B,C	○	LF	Landfills, Land Application Sites, and Open Dumps
		Sector M: Automobile Salvage Yards	
B	●	5015	Automobile Salvage Yards
		Sector N: Scrap Recycling Facilities	
B	○	5093	Scrap Recycling Facilities
B	○	4499 (limited to list)	Dismantling Ships, Marine Salvaging, and Marine Wrecking - Ships for Scrap
		Sector O: Steam Electric Generating Facilities	
B,C	○	SE	Steam Electric Generating Facilities

Sampling Notes	Mark all that apply	SIC Code or Activity Code	Activity Represented
		Sector P: Land Transportation and Warehousing	
B	○	4011, 4013	Railroad Transportation
B	○	4111-4173	Local and Highway Passenger Transportation
B	○	4212-4231	Motor Freight Transportation and Warehousing
B	○	4311	United States Postal Service
B	○	5171	Petroleum Bulk Stations and Terminals
		Sector Q: Water Transportation	
B	○	4412-4499 (except 4499 as specified in Sector N)	Water Transportation
		Sector R: Ship and Boat Building or Repairing Yards	
	○	3731, 3732	Ship and Boat Building or Repair Yards
		Sector S: Air Transportation	
B	○	4512-4581	Air Transportation Facilities
		Sector T: Treatment Works	
B	○	TW	Treatment Works
		Sector U: Food and Kindred Products	
	○	2011-2015	Meat Products
	○	2021-2026	Dairy Products
	○	2032-2038	Canned, Frozen and Preserved Fruits, Vegetables and Food Specialties
B	○	2041-2048	Grain Mill Products
	○	2051-2053	Bakery Products
	○	2061-2068	Sugar and Confectionery Products
B	○	2074-2079	Fats and Oils
	○	2082-2087	Beverages
	○	2091-2099	Miscellaneous Food Preparations and Kindred Products
	○	2111-2141	Tobacco Products
		Sector V: Textile Mills, Apparel, and Other Fabric Product Manufacturing, Leather and Leather Pruducts	
	○	2211-2299	Textile Mill Products
	○	2311-2399	Apparel and Other Finished Products Made From Fabrics and Similiar Materials
	○	3131-3199 (except 3111- see sector Z)	Leather and Leather Products, except Leather Tanning and Finishing
		Sector W: Furniture and Fixtures	
	○	2434	Wood Kitchen Cabinets
	○	2511-2599	Furniture and Fixtures
		Sector X: Printing and Publishing	
	○	2711-2796	Printing, Publishing, and Allied Industries
		Sector Y: Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries	
B	○	3011	Tires and Inner Tubes
B	○	3021	Rubber and Plastics Footwear
B	○	3052, 3053	Gaskets, Packing, and Sealing Devices and rubber and Plastics Hose and Belting
B	○	3061, 3069	Fabricated Rubber Products, Not Elsewhere Classified
B	○	3081-3089	Miscellaneous Plastics Products
	○	3931	Musical Instruments
	○	3942-3949	Dolls, Toys, Games and Sporting and Athletic Goods
	○	3951-3955	Pens, Pencils, and Other Artists' Materials
	○	3961, 3965	Costume Jewelry, Costume Novelties, Buttons, and Miscellaneous Notions, Except Precious Metal
	○	3991-3999	Miscellaneous Manufacturing Industries

Sampling Notes	Mark all that apply	SIC Code or Activity Code	Activity Represented
		Sector Z: Leather Tanning and Finishing	
B	○	3111	Leather Tanning, Currying and Finishing
		Sector AA: Fabricated Metal Products	
B	○	3411-3499	Fabricated Metal Products, Except Machinery and Transportation Equipment
B	○	3911-3915	Jewelry, Silverware, and Plated Ware
		Sector AB: Transportation Equipment, Industrial or Commercial Machinery	
	○	3511-3599 (except 3571-3579 see Sector AC)	Industrial and Commercial Machinery (Except Computer and Office Equipment)
	○	3711-3799 (except 3731 & 3732 see Sector R)	Transportation Equipment (Except Ship and Boat Building and Repairing)
		Sector AC: Electronic, Electrical, Photographic, and Optical Goods	
B	○	3571-3579	Computer and Office Equipment
B	○	3612-3699	Electronic, Electrical Equipment and Components, Except Computer Equipment
B	○	3812-3873	Measuring, Analyzing and Controlling Instrument; Photographic and Optical Goods
		Sector AD & AE: Non-Classified Facilities/Storm Water Discharges Designated By the Board As Requiring Permits	
B	○	Sector AD	Other Storm Water Discharges Designated By the Department As Needing a Permit or Any Facility Discharging Storm Water Associated With Industrial Activity Not Described By Any of Sectors A-AC. Note: Facilities may not elect to be covered under Sector AD. Only the Department may assign a facility to Sector AD.
B	○	Sector AE	

Notes: B - Benchmark Monitoring Required
C - Compliance Monitoring for Point Source Category Effluent Limitations

5. Has a Stormwater Pollution Prevention Plan (SWPPP) been prepared for this facility in accordance with the requirements of the SPDES Multi-Sector General Permit? Please be advised that you cannot obtain coverage under this permit without having first prepared a SWPPP. ..... ◉ Yes ○ No

6. For each stormwater discharge associated with industrial activity at your facility identify the outfall number (e.g., 001, 002, etc.); the four digit Standard Industrial Classification (SIC) codes or 2-letter Industrial Activity Codes that best represent the principal products or services rendered by the facility for that drainage area; and the acreage of industrial activity exposed to stormwater for each outfall (round to nearest tenth of an acre):

	Outfall No.	Industrial Activities (SIC or 2-letter Codes) A	B	C	Acreage
1	001	5015			2.3
2					.
3					.
4					.
5					.
6					.
7					.
8					.
9					.
				Total Acreage	2.3

(Note: SIC information can be obtained at the following web sites: http://www.osha.gov/pls/imis/sicsearch.html and http://www.softshare.com/tables/sic/. The 2-letter Industrial Activity Codes are: **HZ** - hazardous waste treatment, storage or disposal facilities; **LF** - landfills/disposal facilities that receive or have received any industrial waste; **SE** - steam electric power generating facilities; or **TW** - treatment works for treating domestic sewage.)

7. Does this facility have coal piles that are exposed to precipitation? ..... ○ Yes ● No

8. Does this facility discharge have salt piles that are exposed to precipitation? ..... ○ Yes ● No

9. Does this facility discharge stormwater from secondary containment areas for liquid bulk storage or transfer areas? ..... ○ Yes ● No

10. Is the facility subject to any of the following EPA Point Source Category Effluent Limitations?

- Runoff from material storage piles at cement manufacturing facilities (40 CFR Part 411 Subpart C)? ..... ○ Yes ● No

If yes, list Outfall Nos. [ ] [ ] [ ] [ ] [ ] [ ]

- Contaminated runoff from phosphate fertilizer manufacturing facilities (40 CFR Part 418 Subpart A)? ..... ○ Yes ● No

If yes, list Outfall Nos. [ ] [ ] [ ] [ ] [ ] [ ]

- Coal Pile runoff at steam electric power generating facilities (40 CFR Part 423)? ..... ○ Yes ● No

If yes, list Outfall Nos. [ ] [ ] [ ] [ ] [ ] [ ]

- Discharges resulting from spraydown or intentional wetting of logs at wet deck storage areas (40 CFR Part 429 Subpart I)? ..... ○ Yes ● No

If yes, list Outfall Nos. [ ] [ ] [ ] [ ] [ ] [ ]

- Mine dewatering discharges at crushed stone, construction sand and gravel, and industrial sand mines (40 CFR Part 436)? ..... ○ Yes ● No

If yes, list Outfall Nos. [ ] [ ] [ ] [ ] [ ] [ ]

- Runoff from asphalt emulsion facilities (40 CFR Part 443 Subpart A)? ..... ○ Yes ● No

If yes, list Outfall Nos. [ ] [ ] [ ] [ ] [ ] [ ]

- Runoff from landfills (40 CFR 445 Subpart A and B)? ..... ○ Yes ● No

If yes, list Outfall Nos. [ ] [ ] [ ] [ ] [ ] [ ]

11. Provide the name(s) of the surface waterbody(ies) into which site runoff will discharge:

BRONX RIVER

12(a). Does site runoff enter a Municipal Separate Storm Sewer System including roadside drains, swales, ditches, culverts, etc.? ..... ○ Yes ● No

12(b). If yes, what is the name of the municipality/entity that owns the Municipal Separate Storm Sewer System?

13. Identify any other DEC Permits that are required for this facility:

○ Air Pollution Control	○ Stream Protection/Article 15
○ Coastal Erosion	○ Water Quality Certificate
○ Hazardous Waste	○ Dam Safety
○ Long Island Wells	○ Water supply
○ Mined Land Reclamation	○ Freshwater Wetlands
○ Other SPDES	○ Tidal Wetlands
○ Solid Waste	○ Wild, Scenic and Recreational Rivers

Other

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

LOUIS
Owner/Operator First Name (please print or type)

MI

02/16/2007
Date

SCARNATI
Owner/Operator Last Name (please print or type)

Signature

From: "Julia Acosta" <JRAcosta@LKQCORP.com>
To: "Bruce Terbush" <brterbus@gw.dec.state.ny.us>
Date: 4/26/2007 9:34:45 AM
Subject: RE: Question on DEC's Stormwater General Permit for LQD HuntsPoint Auto Parts

Mr. Terbush
We're sorry for that oversight.
Yes, we do in fact have a Stormwater Pollution Prevention Plan in place that is maintained and current.
Thanks

-----Original Message-----
From: Bruce Terbush [mailto:brterbus@gw.dec.state.ny.us]
Sent: Thursday, April 26, 2007 8:51 AM
To: Julia Acosta
Subject: Question on DEC's Stormwater General Permit for LQD HuntsPoint
Auto Parts

Mr. Scarnati,
I am in the process of reviewing the Notice of Intent form submitted for the LQD Hunts Point Auto Parts facility to obtain permit coverage under the new SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity.
As you are aware this is a renewal of the old general permit for the LQD Hunts Point Auto Parts facility which has been assigned permit ID No. NYR00B428.
During the review I noticed that you did not answered question 5 "Has a Stormwater Pollution Prevention Plan (SWPPP) been prepared for this facility in accordance with the requirements of the SPDES Multi-Sector General Permit?" Under the permit requirements you should have a Stormwater Pollution Prevention Plan in place although you do not have to update your Stormwater Pollution Prevention Plan to reflect the new general permit until August 25, 2007. I did want to make sure that the facility does have a Stormwater Pollution Prevention Plan in place for the LQD Hunts Point Auto Parts facility (as required under the old general permit).
Please confirm that the facility does have a Stormwater Pollution Prevention Plan so that processing of the Notice of Intent form can proceed.

Thank you in advance for your assistance on this matter.

Bruce Terbush
NYSDEC, Bureau of Water Permits
625 Broadway
Albany, New York 12233-3505
(518) 402-8235

2456480920

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits, 4th Floor

625 Broadway, Albany, New York 12233-3505
Phone: (518) 402-8111 . Fax: (518) 402-9029
Website: www.dec.state.ny.us

NYR 0 0 B 4 2 8

Notice of Intent

For Stormwater Discharges Associated with Industrial Activity under the State Pollutant Discharge Elimination System (SPDES) Multi-Sector General Permit GP-0-12-001 (MSGP)

All Sections must be completed unless otherwise noted. Incomplete forms will be returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit prior to submitting this Notice of Intent (NOI) Form. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

IMPORTANT:

-USE THIS NOI TO OBTAIN COVERAGE UNDER GP-0-12-001.
-TYPE OR PRINT IN BOXES. AVOID CONTACT WITH THE EDGE OF THE BOXES.
-FILL IN CIRCLES COMPLETELY AND DO NOT USE CHECK MARKS.
-OWNER/OPERATOR MUST SIGN FORM.

Owner/Operator Information

Enter the name of the legally responsible party and the address of the executive office

O/O Name: LKQ HUNTS POINT AUTO PARTS CORP

O/O Street Address: 1480 SHERIDAN EXPWY

O/O City: BRONX

O/O State: NY

O/O Zip: 10459-

Contact Information

Enter the name and contact information for the individual responsible for communicating with DEC regarding the implementation of the MSGP on behalf of the owner/operator.

Contact First Name: LOUIS

Contact Last Name: SCARNATI

Contact Phone: 718-589-4444

Contact Fax: ---

Contact eMail: JRACOSTA@LKQCORP.CORP

ENTERED 2/23/2013 TB

Facility Information

Enter the complete street address of the physical location of the facility.

Facility Name

LKQ HUNTS POINT AUTO PARTS

Facility Street Address

1480 SHERIDAN EXPWY

Facility City

BRONX

State

NY

Facility Zip

10459 -

Facility County

BRONX

Name of Nearest Cross Street

WESTCHESTER AVENUE

Distance to Nearest Cross Street (feet)

250

Direction to Nearest Cross Street

○ North ● South ○ East ○ West

Mailing Information

Provide address where DMR should be mailed, if different from Owner/Operator Information on page 1.

Name

TABS CONSULTING GROUP INC

Street Address

2 52nd STREET BOX B11

City

BROOKLYN

State

NY

Zip

11232 -

Provide address where SPDES fee (billing) should be mailed, if different from Owner/Operator Information on page 1.

Name

Street Address

City

State

Zip

-

1. Does your facility meet all the eligibility requirements listed in Part I.C of the SPDES Multi-Sector General Permit to gain coverage under this general permit? ..... ● Yes ○ No

If No, contact the Department to discuss next steps. If Yes, go to question 2.

2. Does your facility conduct any activities listed in Part I.D of the SPDES Multi-Sector General Permit which would make your facility inelibible for coverage under this general permit? ..... ○ Yes ● No

If Yes, contact the Department to discuss next steps. If No, go to question 3.

3. Provide the name(s) of the nearest surface waterbody(ies) into which site runoff will discharge:

BRONX RIVER

4(a). Does site runoff enter a Municipal Separate Storm Sewer System including roadside drains, swales, ditches, culverts, etc.? ..... ● Yes ○ No

4(b). If Yes, what is the name of the municipality/entity that owns the Municipal Separate Storm Sewer System

NEW YORK CITY

5(a). Has a Stormwater Pollution Prevention Plan (SWPPP) been prepared for this facility in accordance with the requirements of the SPDES Multi-Sector General Permit? Please be advised that you cannot obtain coverage under this permit without having first prepared a SWPPP. ..... ● Yes ○ No

5(b). How will you make your SWPPP available to the public?

○ Posting a copy online (Provide URL).

● Maintain copy at the facility address listed in the facility information section of the NOI

○ Maintain copy at the following location (Provide address).

Street Address

City State Zip -

6(a). Has the surface waterbody(ies) in question 3 been identified as an impaired waterbody on the CWA 303(D) list or in a watershed for which a Total Maximum Daily Load (TMDL) strategy has been approved? Information about impaired waters identified in the 303(d) list is found on the Department's public web site at: http://www.dec.ny.gov/chemical/31290.html. ..... ● Yes ● No

6(b). If Yes, is the pollutant(s) causing the impairment a pollutant of concern included in the benchmarks and/or effluent limitations to which the facility is subject to in Part VIII of the SPDES Multi-Sector General Permit? A list of applicable pollutant(s) of concern for the SPDES Multi-Sector General Permit can be found in Appendix G of the permit. ..... ○ Yes ● No

6(c). If Yes, does your SWPPP include measures to address the pollutant(s) of concern as required by Part III.F.4 of the SPDES Multi-Sector General Permit? ..... ○ Yes ○ No

7. Provide the geographic coordinates in decimal degrees for the latitude & longitude of the facility. The NYS DEC Stormwater Interactive Map on the DEC's website can be used to get coordinates. Go to: www.dec.ny.gov/imsmaps/stormwater/viewer.htm

4	0	.	8	2	9		-	7	3	.	8	8	4

Latitude Longitude

8(a). Has this facility been assigned a SPDES MSGP ID under previous versions of the MSGP? ..... ● Yes ○ No

8(b). If Yes, Provide the ID if known (Note: All SPDES MSGP IDs begin with NYR00:)

○ I don't know the facility's ID

● The facility's existing ID is: | N | Y | R | 0 | 0 | B | 4 | 2 | 8 |

9. Identify all applicable Industrial Activities from the Industrial Sectors shown below that are located within areas subject to the stormwater discharges covered under this permit. Check all that apply to your facility.

Sampling Notes	Mark all that apply	SIC Code or Activity Code	Activity Represented
		Sector A: Timber Products	
B,C	○	2411	Log Storage and Handling (Wet deck storage areas are only authorized if no chemical additives are used in the spray water or applied to the logs).
B	○	2421	General Sawmills and Planning Mills
B	○	2426	Hardwood Dimension and Flooring Mills
B	○	2429	Special Product Sawmills, Not Elsewhere
B	○	2431-2439 (except 2434 - see sector W)	Millwork, Veneer, Plywood, and Structural Wood.
B	○	2441, 2448, 2449	Wood Containers
B	○	2451, 2452	Wood Buildings and Mobile Homes
B	○	2491	Wood Preserving
B	○	2493	Reconstituted Wood Products
B	○	2499	Wood Products, Not Elsewhere Classified
		Sector B: Paper and Allied Products	
	○	2611	Pulp Mills
	○	2621	Paper Mills
B	○	2631	Paperboard Mills
	○	2652-2657	Paperboard Containers and Boxes
	○	2671-2679	Converted Paper and Paperboard Products, Except Containers and Boxes
		Sector C: Chemical and Allied Products	
B	○	2812-2819	Industrial Inorganic Chemicals.
B	○	2821-2824	Plastics Materials and Synthetic Resins, Synthetic Rubber, Cellulosic and Other Manmade Fibers Except Glass.
	○	2833-2836	Medicinal Chemicals and Botanical Products; Pharmaceutical Preparations; In Vitro and In Vivo Diagnostic Substances; Biological Products, Except Diagnostic Substances.
B	○	2841-2844	Soaps, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations.
	○	2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products.
	○	2861-2869	Industrial Organic Chemicals.
B,C	○	2873-2879	Agricultural Chemicals.
	○	2891-2899	Miscellaneous Chemical Products.
	○	3952 (limited to list)	Inks and Paints, Including China Painting Enamels, India Ink, Drawing Ink, Platinum Paints for Burnt Wood or Leather Work, Paints for China Painting, Artist's Paints and Artist's Watercolors.
B	○	2911	Oil Refineries
		Sector D: Asphalt Paving and Roofing Materials and Lubricants	
B,C	○	2951, 2952	Asphalt Paving and Roofing Materials
	○	2992, 2999	Miscellaneous Products of Petroleum and Coal
		Sector E: Glass Clay, Cement, Concrete, and Gypsum Products	
	○	3211	Flat Glass
	○	3221, 3229	Glass and Glassware, Pressed or Blown
	○	3231	Glass Products Made of Purchased Glass
C	○	3241	Hydraulic Cement
B	○	3251-3259	Structural Clay Products
B	○	3261-3269	Pottery and Related Products
B,C	○	3271-3275	Concrete, Gypsum and Plaster
	○	3281	Cut Stone and Stone Products
	○	3291-3299	Abrasive, Asbestos, and Miscellaneous Non-metallic Mineral Products

Sampling Notes	Mark all that apply	SIC Code or Activity Code	Activity Represented
		Sector F: Primary Metals	
B	○	3312-3317	Steel Works, Blast Furnaces, and Rolling and Finishing Mills
B	○	3321-3325	Iron and Steel Foundries
	○	3331-3339	Primary Smelting and Refining of Nonferrous Metals
	○	3341	Secondary Smelting and Refining of Nonferrous Metals
B	○	3351-3357	Rolling, Drawing, and Extruding of Nonferrous
B	○	3363-3369	Nonferrous Foundries (Castings)
	○	3398, 3399	Miscellaneous Primary Metal Products
		Sector G: Metal Mining (Ore Mining and Dressing)	
B,C	○	1011	Iron Ores
B,C	○	1021	Copper Ores
B,C	○	1031	Lead and Zinc Ores
B,C	○	1041, 1044	Gold and Silver Ores
B,C	○	1061	Ferroalloy Ores, Except Vanadium
B,C	○	1081	Metal Mining Services
B,C	○	1094, 1099	Miscellaneous Metal Ores
		Sector H: Coal Mines and Coal Mining Related Facilities	
		Sector I: Oil and Gas Extraction and Refining	
B	○	1311	Crude Petroleum and Natural Gas
B	○	1321	Natural Gas Liquids
B	○	1381-1389	Oil and Gas Field Services
		Sector J: Mineral Mining and Dressing	
B	○	1411	Dimension Stone
B,C	○	1422-1429	Crushed and Broken Stone, Including Rip Rap
B,C	○	1442, 1446	Sand and Gravel
	○	1455, 1459	Clay, Ceramic, and Refractory Materials
	○	1474-1479	Chemical and Fertilizer Mineral Mining
B	○	1481	Nonmetallic Minerals Services, Except Fuels
B	○	1499	Miscellaneous Nonmetallic Minerals, Except Fuels
		Sector K: Hazardous Waste Treatment, Storage, or Disposal Facilities	
B,C	○	HZ	Hazardous Waste Treatment, Storage or Disposal
		Sector L: Land Fills and Land Application Sites	
B,C	○	LF	Landfills, Land Application Sites, and Open Dumps
		Sector M: Automobile Salvage Yards	
B	●	5015	Automobile Salvage Yards
		Sector N: Scrap Recycling Facilities	
	○	5093 N-1	Scrap Recycling Facilities. Source Separated Recycling Only
B	○	5093 N-2	Mixed Waste Stream of Non-Recyclable & Recyclable Wastes
B	○	5093 N-3	Scrap and Waste Recycling (Non-Liquid Wastes)
B,C	○	5093 N-4	Facilities With A Shredder
B	○	5093 N-5	Reclaiming & Recycling of Liquid Wastes
B	○	4499 (limited to list) N-6	Dismantling Ships, Marine Salvaging, and Marine Wrecking - Ships for Scrap

Sampling Notes	Mark all that apply	SIC Code or Activity Code	Activity Represented
		Sector O: Steam Electric Generating Facilities	
B,C	O	SE	Steam Electric Generating Facilities
		Sector P: Land Transportation and Warehousing	
B	O	4011, 4013	Railroad Transportation
B	O	4111-4173	Local and Highway Passenger Transportation
B	O	4212-4231	Motor Freight Transportation and Warehousing
B	O	4311	United States Postal Service
B	O	5171	Petroleum Bulk Stations and Terminals
		Sector Q: Water Transportation	
B	O	4412-4499 (except 4499 as specified in Sector N)	Water Transportation
		Sector R: Ship and Boat Building or Repairing Yards	
	O	3731, 3732	Ship and Boat Building or Repair Yards
		Sector S: Air Transportation	
B	O	4512-4581	Air Transportation Facilities
		Sector T: Treatment Works	
B	O	TW	Treatment Works
		Sector U: Food and Kindred Products	
	O	2011-2015	Meat Products
	O	2021-2026	Dairy Products
	O	2032-2038	Canned, Frozen and Preserved Fruits, Vegetables and Food Specialties
B	O	2041-2048	Grain Mill Products
	O	2051-2053	Bakery Products
	O	2061-2068	Sugar and Confectionery Products
B	O	2074-2079	Fats and Oils
	O	2082-2087	Beverages
	O	2091-2099	Miscellaneous Food Preparations and Kindred Products
	O	2111-2141	Tobacco Products
		Sector V: Textile Mills, Apparel, and Other Fabric Product Manufacturing, Leather and Leather Pruducts	
	O	2211-2299	Textile Mill Products
	O	2311-2399	Apparel and Other Finished Products Made From Fabrics and Similiar Materials
	O	3131-3199 (except 3111- see sector Z)	Leather and Leather Products, except Leather Tanning and Finishing
		Sector W: Furniture and Fixtures	
	O	2434	Wood Kitchen Cabinets
	O	2511-2599	Furniture and Fixtures
		Sector X: Printing and Publishing	
	O	2711-2796	Printing, Publishing, and Allied Industries

Sampling Notes	Mark all that apply	SIC Code or Activity Code	Activity Represented
		Sector Y: Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries	
B	○	3011	Tires and Inner Tubes
B	○	3021	Rubber and Plastics Footwear
B	○	3052, 3053	Gaskets, Packing, and Sealing Devices and rubber and Plastics Hose and Belting
B	○	3061, 3069	Fabricated Rubber Products, Not Elsewhere Classified
	○	3081-3089	Miscellaneous Plastics Products
	○	3931	Musical Instruments
	○	3942-3949	Dolls, Toys, Games and Sporting and Athletic Goods
	○	3951-3955	Pens, Pencils, and Other Artists' Materials
	○	3961, 3965	Costume Jewelry, Costume Novelties, Buttons, and Miscellaneous Notions, Except Precious Metal
	○	3991-3999	Miscellaneous Manufacturing Industries
		Sector Z: Leather Tanning and Finishing	
B	○	3111	Leather Tanning, Currying and Finishing
		Sector AA: Fabricated Metal Products	
B	○	3411-3499	Fabricated Metal Products, Except Machinery and Transportation Equipment
B	○	3911-3915	Jewelry, Silverware, and Plated Ware
		Sector AB: Transportation Equipment, Industrial or Commercial Machinery	
	○	3511-3599 (except 3571-3579 see Sector AC)	Industrial and Commercial Machinery (Except Computer and Office Equipment)
	○	3711-3799 (except 3731 & 3732 see Sector R)	Transportation Equipment (Except Ship and Boat Building and Repairing)
		Sector AC: Electronic, Electrical, Photographic, and Optical Goods	
B	○	3571-3579	Computer and Office Equipment
B	○	3612-3699	Electronic, Electrical Equipment and Components, Except Computer Equipment
B	○	3812-3873	Measuring, Analyzing and Controlling Instrument; Photographic and Optical Goods
		Sector AD & AE: Non-Classified Facilities/Storm Water Discharges Designated By the Board As Requiring Permits	
B	○	Sector AD	Other Storm Water Discharges Designated By the Department As Needing a Permit or Any Facility Discharging Storm Water Associated With Industrial Activity Not Described By Any of Sectors A-AC. Note: Facilities may not elect to be covered under Sector AD. Only the Department may assign a facility to Sector AD.
B	○	Sector AE	

Notes: B - Benchmark Monitoring Required
C - Compliance Monitoring for Point Source Category Effluent Limitations

10. For each stormwater discharge associated with industrial activity at your facility identify the outfall number (e.g., 001, 002, etc.); the four digit Standard Industrial Classification (SIC) codes, Section N Subsector, or 2-letter Industrial Activity Codes that best represent the principal products or services rendered by the facility for that drainage area; and the acreage of industrial activity exposed to stormwater for each outfall (round to nearest tenth of an acre):

	Outfall No.	Industrial Activities (SIC or 2-letter Codes) A	N	B	N	C	N	Acreage
1	001	5015						4.0
2								.
3								.
4								.
5								.
6								.
7								.
8								.
9								.
							Total Acreage	4.0

(Note: SIC information can be obtained at the following web sites: http://www.osha.gov/pls/imis/sicsearch.html and http://www.softshare.com/tables/sic/. The 2-letter Industrial Activity Codes are: **HZ** - hazardous waste treatment, storage or disposal facilities; **LF** - landfills/disposal facilities that receive or have received any industrial waste; **SE** - steam electric power generating facilities; or **TW** - treatment works for treating domestic sewage.)

11. Does this facility have coal piles that are exposed to precipitation? ..... ○ Yes ● No

12. Does this facility discharge have salt piles that are exposed to precipitation? ..... ○ Yes ● No

13. Does this facility discharge stormwater from secondary containment areas for liquid bulk storage or transfer areas? ..... ○ Yes ● No

14. Is the facility subject to any of the following EPA Point Source Category Effluent Limitations?

- Runoff from material storage piles at cement manufacturing facilities (40 CFR Part 411 Subpart C)? ○ Yes ● No
  If Yes, list Outfall numbers.

- Contaminated runoff from phosphate fertilizer manufacturing facilities (40 CFR Part 418 Subpart A)? ..... ○ Yes ● No
  If Yes, list Outfall numbers.

- Coal Pile runoff at steam electric power generating facilities (40 CFR Part 423)? ..... ○ Yes ● No
  If Yes, list Outfall numbers.

- Discharges resulting from spraydown or intentional wetting of logs at wet deck storage areas (40 CFR Part 429 Subpart I)? ..... ○ Yes ● No
  If Yes, list Outfall numbers.

- Mine dewatering discharges at crushed stone, construction sand and gravel, and industrial sand mines (40 CFR Part 436)? ..... ○ Yes ● No
  If Yes, list Outfall numbers.

- Runoff from asphalt emulsion facilities (40 CFR Part 443 Subpart A)? ..... ○ Yes ● No
  If Yes, list Outfall numbers.

- Runoff from landfills (40 CFR 445 Subpart A and B)? ..... ○ Yes ● No
  If Yes, list Outfall numbers.

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

LOUIS
O/O Signature First Name (please print or type)

MI

11/07/2012
Date

SCARNATI
O/O Signature Last Name (please print or type)

Signature

MSGP Data Entry Supplement *DEC Use Only*

Reviewer- MUS Date reviewed - 1/10/13

NPDES Id – NYR00 B428 Did not know ____

Effective Date - 1/30/13

Primary SIC code - 5015 *Secondary SIC codes* - _____

Permit User Defined Field 1- CP SP SC

DMR on the Web- (DMR) or PDF

Impaired waters - Y or (N)

Pollutant of Concern in Benchmarks or Effluent Limits - Y or (N)

No benchmarks

Permitted Feature ID

Benchmark and Effluent Monitoring - Annual

Source Limit Set	Target Permitted Feature	Target Limit Set Designator	Initial Monitoring Date	Initial DMR Due Date
CM1	001	A	01/01/13	02/28/14
			01/01/	02/28/
			01/01/	02/28/
			01/01/	02/28/
			01/01/	02/28/
			01/01/	02/28/
			01/01/	02/28/
			01/01/	02/28/
			01/01/	02/28/
			01/01/	02/28/
			01/01/	02/28/
			01/01/	02/28/

Quarterly monitoring

Source Limit Set	Target Permitted Feature	Target Limit Set Designator	Initial Monitoring Date	Initial DMR Due Date

State Facility ID - 2-6005-00852

Facility Type Ownership - (Corporation) Federal Individual Municipal State

State Region Code - 02

Latitude - 40.829 *Longitude* - -73.884

Notes:

SIC code	Impairment	Source Code limit set	POC	Final limit set	
				Bench	Compl

Data entry staff TB date entered 2/28/2013

New York State Department of Environmental Conservation
Division of Environmental Remediation

Petroleum Bulk Storage Application

Pursuant to the Environmental Conservation Law: Article 17, Title 10; and
Regulations 6 NYCRR Part 613 and 6 NYCRR Subpart 374-2
(Please Type or Print Clearly and Complete All Items for Sections A, B & C)

PBS Number: 2-233366

Return Completed Form & Fees To:

Expiration Date: 04/26/2016

Section A - Facility/Property Owner/Contact Information

Transaction
Type: 3
1) Initial/New Facility
2) Change of Ownership
3) Tank Installation, Closing, or Repair
4) Information Correction
5) Renewal

FACILITY

Facility Name: LKQ Hunts Point Auto Parts Corp
Facility Address (Physical Address, No P.O. Boxes): 1460 Sheridan Expwy
Facility Address (cont.):
Tax Map Info: Borough/Section:
Block:
Lot:
City: Bronx
State: NY
ZIP Code: 10459
County: Bronx
Township/City: New York City
Facility Phone Number: 718-589-4444
Name of Class B (Daily On-Site) Operator: Louis Scarnati
Operator Authorization No.
Name of Class A (Primary) Operator: Joseph Segarra
Operator Authorization No.

TYPE OF PETROLEUM FACILITY (Check only one)

- ☐ 01=Storage Terminal/Petrol. Distributor
- ☐ 02=Retail Gasoline Sales
- ☐ 03=Other Retail Sales
- ☐ 04=Manufacturing
- ☐ 05=Utility
- ☐ 06=Trucking/Transportation/Fleet
- ☐ 07=Apartment/Office Building
- ☐ 08=School
- ☐ 09=Farm
- ☐ 10=Private Residence
- ☐ 11=Airline/Air Taxi/Airport
- ☐ 12=Chemical Distributor
- ☐ 13=Municipality
- ☐ 15=Railroad
- ☐ 25=Auto Service/Repair (No Gasoline Sales)
- ☐ 16=Nuclear Power Plant
- ☐ 26=Religious (Church, Synagogue, Mosque, Temple, etc.)
- ☐ 27=Hospital/Nursing Home/Health Care
- ☐ 28=Cemetery / Memorial
- ☐ 52=Marina
- ☒ 99=Other (Specify): Automotive Salvage Yard

NOTE:
Fill in Property Owner information here.....>>>
Indicate Tank Owner in Section C.

OWNER

Facility (Property) Owner (from Deed): LKQ Hunts Point Auto Parts Corp
Facility Owner Address (Street and/or P.O. Box): 120 N. LaSalle St. Ste 2100
City: Chicago
State: ILL
ZIP Code: 60602-2416
Federal Tax ID Number: 52-2183622
Owner Telephone Number: 718-589-4444

Type of Owner: (check only one)

- 1 ☐ Private Resident
- 2 ☐ State Government
- 3 ☐ Local Government
- 4 ☐ Federal Government
- 5 ☒ Corporate/Commercial/Other

Emergency Contact Name: Louis Scarnati
Emergency Telephone Number: 917-440-1610

I hereby certify, under penalty of law, that all of the information provided on this form is true and correct. False statements made herein may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.

Name of Property Owner or Authorized Representative: Norman Taylor
Amount Enclosed: $ 0
Title: Environmental Consultant
Signature:
Date: 12/7/15

Official Use Only
Date Received: / /
Date Processed: 12/17/15
Amount Received: $
Reviewed By: MS
Rev. 10/03/15

CORRESPONDENCE

(Please keep this information up to date)
Facility Contact Person Name: Louis Scarnati - LKQ Hunts Point Auto Parts Corp
Contact Person Company Name: 1460 Sheridan Expwy
Address:
Address (cont.):
City/State/ZIP Code: Bronx, NY 10459
Tel. Number: 718-589-4444
eMail Address:

RECEIVED
DEC 10 2015
NYS DEC REGION 2
ENVIRONMENTAL REMEDIATION

For Overdue Registrations Only:

If you are submitting an application for an overdue registration, you may settle the violation by submitting the normal fee, any back fees due, and a penalty of $50 for every month the application is overdue. If you decline to settle, or make no choice, the case will be referred for enforcement which may result in higher penalties to resolve the violations. Please indicate your choice below:

- ☐ I agree to settle and have enclosed the proper fees and penalty amounts.
- ☐ I decline to settle and understand that higher penalties may result.

PBS Number: 2-233366

Section B - Tank Information

(Please use the key located on the last page to complete each item/column)

Registration Expiration Date: 04/26/2016

(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Action	Tank Number	Tank Location	Status	Installation, Out of service or Permanent Closure Date (MM/DD/YYYY) **Application will be returned if blank**	Capacity (Gallons)	Product Stored (If Gasoline w/ethanol or Biodiesel, list %additive)	%	Tank Type	Tank Internal Protection	Tank External Protection	Tank Secondary Containment	Tank Leak Detection	Tank Overfill Prevention	Tank Spill Prevention	Pumping/Dispensing Method	Piping Location	Piping Type	Piping External Protection	Piping Secondary Containment	Piping Leak Detection	Under Dispenser Containment (UDC) (Check box if present)
2	6	1	1	4/1/2014	1000	.00	08	02	00	01	01	06	04	01	02	00	00	00	00	02	☐
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Note: If you need to add tanks to your registration, write them in using blank lines above. Attach additional sheets as needed.
Blank Section B is available at http://www.dec.ny.gov/docs/remediation_hudson_pdf/pbsrenewal.pdf

PBS Number: 2-233366

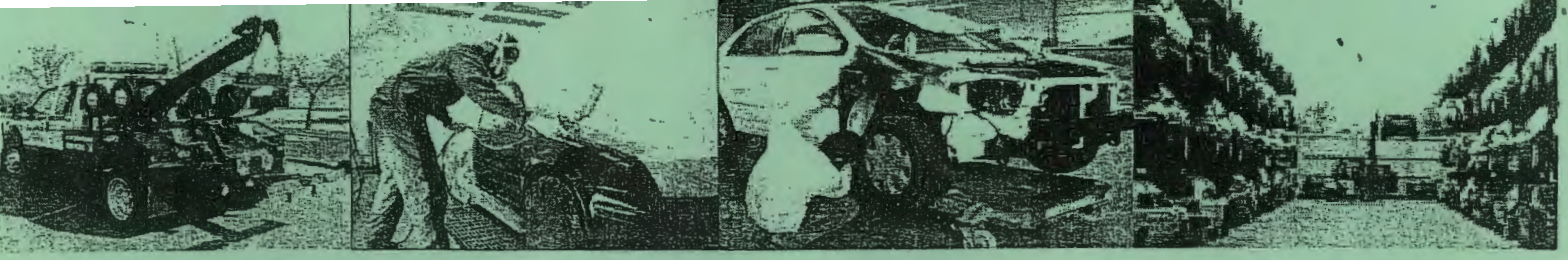
Petroleum Bulk Storage Application

Section C – Tank Ownership Information (for PBS tanks listed in Section B)

Tank Owner Information			**Tank Owner Information**			**Tank Owner Information**		
☒ Check box if same as Facility (Property) Owner. If tank owner is different from property owner, fill out information below:								
Tank Owner Name (Company/Individual):			Tank Owner Name (Company/Individual):			Tank Owner Name (Company/Individual):		
Contact Person:			Contact Person:			Contact Person:		
Tank Owner Address:			Tank Owner Address:			Tank Owner Address:		
Tank Owner Address (cont.)			Tank Owner Address (cont.)			Tank Owner Address (cont.)		
City:	State:	ZIP:	City:	State:	ZIP:	City:	State:	ZIP:
Contact Person Telephone Number:			Contact Person Telephone Number:			Contact Person Telephone Number:		
Contact Person Email:			Contact Person Email:			Contact Person Email:		

Specific Tanks Owned		**Specific Tanks Owned**		**Specific Tanks Owned**	
☐ Check box if this owner owns all tanks at this facility. If not, list tanks owned by this owner below:					
Tank Number	Tank Number (cont.)	Tank Number	Tank Number (cont.)	Tank Number	Tank Number (cont.)

Attach additional sheets as needed.



TABS CONSULTING GROUP INC.

Experts to the Towing, Auto Body & Salvage Industries

2 52nd STREET – BOX B11

BROOKLYN, NY 11232-2602

(718) 492-6464 - FAX: (718) 492-4066

E-Mail: Towingassn@aol.com

THE ATTACHED PAPERWORK HAS BEEN PREPARED AND SUBMITTED AT THE REQUEST OF THE APPLICANT, TOGETHER WITH THE INFORMATION AND ATTACHMENTS THEY HAVE SUPPLIED TO OUR OFFICE.

IF THERE ARE ANY ISSUES WITH THIS MATERIAL PLEASE IMMEDIATELY CONTACT THE OFFICES OF TABS CONSULTING GROUP SO WE CAN STRAIGHTEN OUT ANY MISUNDERSTANDING OR DISCREPANCY.

RECEIVED

DEC 10 2015

NYS DEC REGION 2
ENVIRONMENTAL REMEDIATION

PBS Number
2-233366

New York State Department of Environmental Conservation
PETROLEUM BULK STORAGE CERTIFICATE

625 Broadway, 11th Floor, Albany, NY 12233-7020 Phone: 518-402-9553

Region 2 NYSDEC - PBS Unit
One Hunters Point Plaza, 1st Floor
47-40 21st Street, L.I. City, NY 11101-6454
(718) 482-6454

TANK NUMBER	TANK LOCATION	DATE INSTALLED	TANK TYPE	CAPACITY (GALLONS)	DATE LAST TESTED	TESTING DUE DATE
#1	Aboveground - in contact with soil	01/01/2001	Steel/Carbon Steel/Iron	1,000		*
#2	Aboveground - in contact with soil	01/01/2001	Steel/Carbon Steel/Iron	1,000		*
#4	Aboveground - in contact with soil	01/01/2001	Steel/Carbon Steel/Iron	249		*
#5	Aboveground - in contact with soil	01/01/2001	Steel/Carbon Steel/Iron	249		*

*** Aboveground tanks require monthly visual inspections and may need documented internal inspections as described in 6 NYCRR Part 613**

OWNER:
LKQ HUNTS POINT AUTO PARTS CORP
120 NORTH LASALLE STREET, SUITE 9900
CHICAGO, IL 60602-2416

SITE:
LKQ HUNTS POINT AUTO PARTS CORP
1480 SHERIDAN EXPRESSWAY
1480 SHERIDAN EXPWY
BRONX, NY 10459

OPERATOR: LOUIS SCARNATI
(718) 589-4444

EMERGENCY CONTACT: ANTHONY MASI
(914) 776-5936

ISSUED BY: Commissioner
Denise M. Sheehan
PBS NUMBER: 2-233366
DATE ISSUED: 03/20/2006
EXPIRATION DATE: 04/26/2011
FEE PAID: $100.00

MAILING CORRESPONDENCE:

LOUIS SCARNATI
LKQ HUNTS POINT AUTO PARTS CORP
1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

As an authorized representative of the above named facility, I affirm under penalty of perjury that the information displayed on this form is correct to the best of my knowledge. Additionally, I recognize that I am responsible for assuring that this facility is in compliance with all sections of 6 NYCRR Parts 612, 613 and 614, and applicable sections of 6 NYCRR Subpart 360-14 (used oil tanks only), not just those cited below:

-- The facility must be re-registered if there is a transfer of ownership.
-- The Department must be notified within 30 days prior to adding, replacing, reconditioning, or permanently closing a stationary tank.
-- The facility must be operated in accordance with the code for storing petroleum, 6NYCRR Part 613.
-- Any new facility or substantially modified facility must comply with 6NYCRR Part 614.
-- This certificate must be signed and posted on the premises at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located.
-- Any person with knowledge of a spill, leak or discharge must report the incident to DEC within two hours **(1-800-457-7362)**.

Signature of Representative/ Owner Date

Name and Title of Authorized Representative/Owner (Please Print)

Print Date: 3/20/2006

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE

PBS Number
2-233366

New York State Department of Environmental Conservation
PETROLEUM BULK STORAGE CERTIFICATE

625 Broadway, 11th Floor, Albany, NY 12233-7020 Phone: 518-402-9553

Region 2 NYSDEC - PBS Unit
One Hunters Point Plaza, 1st Floor
47-40 21st Street, L.I. City, NY 11101-6454
(718) 482-6454

TANK NUMBER	TANK LOCATION	DATE INSTALLED	TANK TYPE	PRODUCT STORED	CAPACITY (GALLONS)	DATE LAST TESTED	TESTING DUE DATE
#1	Aboveground - in contact with soil	01/01/2001	Steel/Carbon Steel/Iron	Diesel	1,000		*
#2	Aboveground - in contact with soil	01/01/2001	Steel/Carbon Steel/Iron	Waste Oil/Used Oil	1,000		*
#4	Aboveground - in contact with soil	01/01/2001	Steel/Carbon Steel/Iron	Gasoline	249		*
#5	Aboveground - in contact with soil	01/01/2001	Steel/Carbon Steel/Iron	Gasoline	249		*

* Aboveground tanks require monthly visual inspections and may need documented internal inspections as described in 6 NYCRR Part 613

OWNER:
LKQ HUNTS POINT AUTO PARTS CORP
120 NORTH LASALLE STREET, SUITE 9900
CHICAGO, IL 60602-2416

SITE:
LKQ HUNTS POINT AUTO PARTS CORP
1480 SHERIDAN EXPRESSWAY
1480 SHERIDAN EXPWY
BRONX, NY 10459

ON-SITE OPERATOR: LOUIS SCARNATI (718) 589-4444
PRIMARY OPERATOR:
EMERGENCY CONTACT: ANTHONY MASI (914) 776-5936

MAILING CORRESPONDENCE:

LOUIS SCARNATI
LKQ HUNTS POINT AUTO PARTS CORP
1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

ISSUED BY: Commissioner Joe Martens
PBS NUMBER: **2-233366**
DATE ISSUED: 05/27/2011
EXPIRATION DATE: 04/26/2016
FEE PAID: $300.00

As an authorized representative of the above named facility, I affirm under penalty of perjury that the information displayed on this form is correct to the best of my knowledge. Additionally, I recognize that I am responsible for assuring that this facility is in compliance with all sections of 6 NYCRR Parts 612, 613 and 614, and applicable sections of 6 NYCRR Subpart 374-2 (used oil tanks only), not just those cited below:

-- The facility must be re-registered if there is a transfer of ownership.
-- The Department must be notified within 30 days prior to adding, replacing, reconditioning, or permanently closing a stationary tank.
-- The facility must be operated in accordance with the code for storing petroleum, 6NYCRR Part 613.
-- Any new facility or substantially modified facility must comply with 6NYCRR Part 614.
-- **This certificate must be signed and posted on the premises at all times.** Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located.
-- Any person with knowledge of a spill, leak or discharge must report the incident to DEC within two hours **(1-800-457-7362)**.

Signature of Representative/ Owner Date

Name and Title of Authorized Representative/Owner (Please Print)

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

BUREAU OF WATER PERMITS
APR 09 2010
RECEIVED

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: LKQ HUNTS POINT AUTO PARTS CORP
BRONX, NY 10459
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
LOCATION: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

NYR00B428	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2009	TO	12/31/2009

DMR Mailing ZIP CODE: 10459
MINOR
(SUBR 02)
STORMWATER RUNOFF - BENCHMARK MONI
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	164	mg/L	1	01/YR	Grab
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	100 DAILY MX	mg/L		Annual	GRAB
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	5.3	mg/L	0	01/YR	Grab
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Annual	GRAB
Iron, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	50.3	mg/L	1	01/YR	Grab
00980 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1 DAILY MX	mg/L		Annual	GRAB
Aluminum, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	922	ug/L	1	01/YR	Grab
01104 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	750 DAILY MX	ug/L		Annual	GRAB
Lead, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	13.6	ug/L	0	01/YR	Grab
01114 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	82 DAILY MX	ug/L		Annual	GRAB
Toluene	SAMPLE MEASUREMENT	******	******	******	******	******	27.5	ug/L	0	01/YR	Grab
34010 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB
Benzene	SAMPLE MEASUREMENT	******	******	******	******	******	17.9	ug/L	0	01/YR	Grab
34030 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Norman Teitler	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		718	4926464	03/30/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Automobile Salvage Yards (SIC 5015)

Date Tested - 12/2009 SAM. 2" 10 HRS +7 Days

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

BUREAU OF WATER PERMITS

APR 09 2010

RECEIVED

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: LKQ HUNTS POINT AUTO PARTS CORP
BRONX, NY 10459
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
LOCATION: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

NYR00B428	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2009	TO	12/31/2009

DMR Mailing ZIP CODE: 10459
MINOR
(SUBR 02)
STORMWATER RUNOFF - BENCHMARK MONI
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Ethylbenzene	SAMPLE MEASUREMENT	******	******	******	******	******	22.8	ug/L	0	01/yr	Grab
34371 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB
Xylene	SAMPLE MEASUREMENT	******	******	******	******	******	151	ug/L	0	01/yr	Grab
81551 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Norman Tartler	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		718	492-6464	03/30/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Automobile Salvage Yards (SIC 5015)
Date-12/2009 SM 2" 10 Hrs +7 Days

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

BUREAU OF WATER PERMITS
MAR 26 2012
RECEIVED

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: LKQ HUNTS POINT AUTO PARTS CORP
BRONX, NY 10459
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
LOCATION: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

NYR00B428	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	12/31/2011

DMR Mailing ZIP CODE: 10459
MINOR
(SUBR 02)
STORMWATER RUNOFF - BENCHMARK MONI
External Outfall
No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	332	mg/L	1	01/3YR	Grab
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	100 DAILY MX	mg/L		Annual	GRAB
Oil & Grease	SAMPLE MEASUREMENT	******	******	******	******	******	56.6	mg/L	1	01/YR	Grab
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Annual	GRAB
Iron, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	29.8	mg/L	1	01/YR	Grab
00980 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1 DAILY MX	mg/L		Annual	GRAB
Aluminum, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	21400	ug/L	1	01/YR	Grab
01104 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	750 DAILY MX	ug/L		Annual	GRAB
Lead, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	197	ug/L	1	01/YR	Grab
01114 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	82 DAILY MX	ug/L		Annual	GRAB
Toluene	SAMPLE MEASUREMENT	******	******	******	******	******	2.1	ug/L	0	01/YR	Grab
34010 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB
Benzene	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/YR	Grab
34030 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Norman Fetter	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		718	4926404	03/21/2012
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Automobile Salvage Yards (SIC 5015)
10/27/11 - 46 W A

ENTERED
4/4/2012
TB

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: LKQ HUNTS POINT AUTO PARTS CORP
BRONX, NY 10459
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
LOCATION: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

NYR00B428	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

BUREAU OF WATER PERMITS
MAR 26 2012
RECEIVED

DMR Mailing ZIP CODE: 10459
MINOR
(SUBR 02)
STORMWATER RUNOFF - BENCHMARK MONI
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		**MM/DD/YYYY**
FROM	01/01/2011	**TO**	12/31/2011

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Ethylbenzene	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/YR	Grab
34371 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB
Xylene (mix of m+o+p)	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/YR	Grab
81551 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB

ENTERED
4/24/2012
DB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Norman Teitler	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Norman Teitler	718-492-6641		03/21/2012
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Automobile Salvage Yards (SIC 5015)
10/25/11 SA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPY
BRONX, NY 10459
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
LOCATION: 1480 SHERIDAN EXPY
BRONX, NY 10459

Division of Water
RECEIVED
MAR 07 2014
BUREAU OF WATER PERMITS

NYR00B428	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD	
MM/DD/YYYY	**MM/DD/YYYY**
1/30/2013	12/31/2013

DMR Mailing ZIP CODE: 11232
MINOR
(SUBR 02)
STORMWATER RUNOFF - BENCHMARK MONITOR
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	120	mg/L	1	01/YR	Grab
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	100 DAILY MX	mg/L		Annual	GRAB
Oil & Grease	SAMPLE MEASUREMENT	******	******	******	******	******	6.4	mg/L	0	01/YR	Grab
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Annual	GRAB
Iron, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	5.9	mg/L	1	01/YR	Grab
00980 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1 DAILY MX	mg/L		Annual	GRAB
Aluminum, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	2700	ug/L	1	01/YR	Grab
01104 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	750 DAILY MX	ug/L		Annual	GRAB
Lead, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	72	ug/L	1	01/YR	Grab
01114 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	69 DAILY MX	ug/L		Annual	GRAB
Toluene	SAMPLE MEASUREMENT	******	******	******	******	******	1.2	ug/L	0	01/YR	Grab
34010 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB
Benzene	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/YR	Grab
34030 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Norman Teitler	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	718 492-6464		11/26/2013
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Automobile Salvage Yards (SIC 5015)

9/12/13 3pm 1" 2 hrs 2 weeks

ENTERED

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPY
BRONX, NY 10459
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
LOCATION: 1480 SHERIDAN EXPY
BRONX, NY 10459

Division of Water
RECEIVED
MAR 07 2014
BUREAU OF WATER PERMITS

NYR00B428	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD	
MM/DD/YYYY	**MM/DD/YYYY**
1/30/2013	12/31/2013

DMR Mailing ZIP CODE: 11232
MINOR
(SUBR 02)
STORMWATER RUNOFF - BENCHMARK MONITOR
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Ethylbenzene	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/QR	Grab
34371 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB
Xylene [mix of m+o+p]	SAMPLE MEASUREMENT	******	******	******	******	******	1.8	ug/L	0	01/QR	Grab
81551 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Norman Tiefer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	718	492 6464	11/6/2013
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Automobile Salvage Yards (SIC 5015)

9/12/13 3hrs 1" 2 Hrs 2 weeks

ENTERED

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPY
BRONX, NY 10459
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
LOCATION: 1480 SHERIDAN EXPY
BRONX, NY 10459

NYR00B428	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
1/1/2015	12/31/2015

DMR Mailing ZIP CODE: 11232
MINOR
(SUBR 02)
STORMWATER RUNOFF - BENCHMARK MO
External Outfall
No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	39	mg/L	0	01/YR	Grab
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	100 DAILY MX	mg/L		Annual	GRAB
Oil & Grease	SAMPLE MEASUREMENT	******	******	******	******	******	5.2	mg/L	0	01/YR	Grab
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Annual	GRAB
Iron, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	0.860	mg/L	0	01/YR	Grab
00980 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1 DAILY MX	mg/L		Annual	GRAB
Aluminum, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	460	ug/L	0	01/YR	Grab
01104 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	750 DAILY MX	ug/L		Annual	GRAB
Lead, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	6.3	ug/L	0	01/YR	Grab
01114 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	69 DAILY MX	ug/L		Annual	GRAB
Toluene	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/YR	Grab
34010 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB
Benzene	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/YR	Grab
34030 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Norman Tuttle	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	7184926464		01/05/2016
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Automobile Salvage Yards (SIC 5015)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPY
BRONX, NY 10459
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
LOCATION: 1480 SHERIDAN EXPY
BRONX, NY 10459

NYR00B428	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
1/1/2015	12/31/2015

DMR Mailing ZIP CODE: 11232
MINOR
(SUBR 02)
STORMWATER RUNOFF - BENCHMARK MO
External Outfall
No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Ethylbenzene	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/YR	Grab
34371 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB
Xylene [mix of m+o+p]	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/YR	Grab
81551 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Norman Teitler	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	7184926464		01/05/2016
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Automobile Salvage Yards (SIC 5015)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPY
BRONX, NY 10459
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
LOCATION: 1480 SHERIDAN EXPY
BRONX, NY 10459

RECEIVED
MAR 03 2017
BUREAU OF WATER PERMITS

NYR00B428	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
1/1/2016	12/31/2016

DMR Mailing ZIP CODE: 11232
MINOR
(SUBR 02)
STORMWATER RUNOFF - BENCHMARK MO
External Outfall
No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	mg/L	0	01/YR	Grab
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	100 DAILY MX	mg/L		Annual	GRAB
Oil & Grease	SAMPLE MEASUREMENT	******	******	******	******	******	<5.0	mg/L	0	01/YR	Grab
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	15 DAILY MX	mg/L		Annual	GRAB
Iron, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	<.060	mg/L	0	01/YR	Grab
00980 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1 DAILY MX	mg/L		Annual	GRAB
Aluminum, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	200	ug/L	0	01/YR	Grab
01104 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	750 DAILY MX	ug/L		Annual	GRAB
Lead, total recoverable	SAMPLE MEASUREMENT	******	******	******	******	******	<5.0	ug/L	0	01/YR	Grab
01114 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	69 DAILY MX	ug/L		Annual	GRAB
Toluene	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/YR	Grab
34010 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB
Benzene	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/YR	Grab
34030 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Norman Teitler	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		718-452-6464		11/30/2016
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Automobile Salvage Yards (SIC 5015)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPY
BRONX, NY 10459
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
LOCATION: 1480 SHERIDAN EXPY
BRONX, NY 10459

RECEIVED
MAR 03 2017
BUREAU OF WATER PERMITS

NYR00B428	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
1/1/2016	12/31/2016

DMR Mailing ZIP CODE: 11232
MINOR
(SUBR 02)
STORMWATER RUNOFF - BENCHMARK MO
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Ethylbenzene	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/QR	Grab
34371 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB
Xylene [mix of m+ o+ p]	SAMPLE MEASUREMENT	******	******	******	******	******	<1.0	ug/L	0	01/QR	Grab
81551 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	50 DAILY MX	ug/L		Annual	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Norman Teitler	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		718-492-6464		11/30/2016
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Automobile Salvage Yards (SIC 5015)

Discharge Monitoring Report (DMR) Signature Authorization Form

Permittee Name LKQ Hunts Point Auto Parts Corp. SPDES NO. NY 200 3428

Facility Name LKQ Hunts Point Auto Parts Corp. Date 3/20/08

Name of person described in paragraph (1), (2) or (3):	Title:
Louis Schiavati	Plant Mgr.
Signature of person described in paragraph (1), (2), or (3):	Date: 3/18/08

THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ANY CHANGE IN THIS INFORMATION DURING THE LIFE OF THE PERMIT

Name and/or Title of person responsible for signing and submitting DMR's:	Phone:		
Norman Teitler	(718) 492-6464		
Mailing Name: Metropolitan Association			
Mailing Address: 2 52 nd. Street Box B-11	City: Brooklyn	State: NY	Zip Code: 11232

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Return To: SPDES Compliance Information Section
Bureau of Water Compliance Programs
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-3506

Discharge Monitoring Report (DMR) Signature Authorization Form

Permittee Name LKQ Hunts Point Auto Parts corp SPDES NO. NY R00 B428

Facility Name LKQ Hunts Point Auto Parts corp Date 3-17-09

Name of person described in paragraph (1), (2) or (3):	Title:
LOUIS SCARNATI	PLANT MANAGER
Signature of person described in paragraph (1), (2), or (3):	Date:
	3/17/09

THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ANY CHANGE IN THIS INFORMATION DURING THE LIFE OF THE PERMIT

Name and/or Title of person responsible for signing and submitting DMR's:	Phone:		
NORMAN TEITLER	(718-492-6464		
Mailing Name: METROPOLITAN ASSOCIATION			
Mailing Address: 2 52nd Street-Bldg B-11	City: BROOKLYN	State: NY	Zip Code: 11232

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Return To: SPDES Compliance Information Section
Bureau of Water Compliance Programs
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-3506

BUREAU OF WATER PERMITS
APR 0 2 2009
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BUREAU OF WATER PERMIT
APR 09 2010
RECEIVED

Discharge Monitoring Report (DMR) Signature Authorization Form

Permittee Name LKQ HuntsPoint AutoPartsCorp SPDES NO. NY6003428

Facility Name LKQ Hunts Point Auto Parts Date 3/31/2010

Name of person described in paragraph (1), (2) or (3):	Title:
LOUIS SCARNATI	PLANT MANAGER
Signature of person described in paragraph (1), (2), or (3):	Date: 3/31/2010

THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ANY CHANGE IN THIS INFORMATION DURING THE LIFE OF THE PERMIT

Name and/or Title of person responsible for signing and submitting DMR's:	Phone:		
NORMAN TEITLER	718-492-6464		
Mailing Name: METROPOLITAN ASSOCIATION			
Mailing Address: 2 52ND STREET-BAY B-11	City: BROOKLYN	State: NY	Zip Code: 11232

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Return To: SPDES Compliance Information Section
Bureau of Water Compliance Programs
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-3506

Discharge Monitoring Report (DMR) Signature Authorization Form

Permittee Name LKQ Hunts Point Auto Parts corp SPDES NO. NYR00B428

Facility Name LKQ Hunts Point Auto Parts Date 3/29/11

Name of person described in paragraph (1), (2) or (3):	Title:
LOUIS SCARNATI	FACILITY MANAGER
Signature of person described in paragraph (1), (2), or (3):	Date: 3/29/2011

THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ANY CHANGE IN THIS INFORMATION DURING THE LIFE OF THE PERMIT

Name and/or Title of person responsible for signing and submitting DMR's:	Phone:		
NORMAN TEITLER	(718-492-6464		
Mailing Name: METROPOLITAN ASSOCIATION			
Mailing Address: 2 52ND STREET-BOX B-11	City: BROOKLYN	State: NY	Zip Code: 11232

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Return To: SPDES Compliance Information Section
Bureau of Water Compliance Programs
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-3506

5748554626

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits
625 Broadway, Albany, New York 12233-3505
Phone: (518) 402-8111 **Fax:**(518) 402-9029
Website: http://www.dec.ny.gov/

SUBMITTED BY
TABS CONSULTING GROUP INC.
(718) 492-6464

Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities (GP-0-12-001)

Corrective Action Form/Non Compliance Event Form

Permit Number
NYR00B428

Facility Name
LKQ HUNTS POINT AUTO PARTS CORP

Contact First Name
LOUIS

Contact Last Name
SCARNATI

Contact Phone
718-589-4444

Contact eMail
METRORTK@AOL.COM

Is this form being used to report a Corrective Action or a Non Compliance Event? ● Corrective Action ○ Event of Non Compliance

Instruction for using this form:
- Complete a separate attachment for each Parameter/Pollutant of Concern exceeded and for every outfall where the exceedance occurred.
- If using this form as a Corrective Action Form, all questions (1 through 12) on each attachment must be answered
- If using this form as a Non-Compliance Event Form, questions 1, 2, 3, and 9 through 12 on each attachment must be answered
- Number each attachment (1 of XX, 2 of XX, 3 of XX, etc.)
- Initial and date each attachment
- Fill in number of attachments included in the box below
- The Owner/Operator must sign and date the certification statement below

Number of attachments included: 4

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblity of fine and imprisonment for knowing violations.

LOUIS
O/O Signature First Name (please print or type)

MI

SCARNATI
O/O Signature Last Name (please print or type)

06/27/2014
Date

Signature

5129554629

1. Parameter/Pollutant of Concern Exceeded: IRON ✓

2. Outfall No.: 001 3. Date of Exceedance: 09/12/2014

4. Permitted Value: 1 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

5. Reported Value: 5.9 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

6. Is the Parameter/Pollutant of Concern exceeded subject to quarterly compliance monitoring for discharges to impaired waterbodies? ○ Yes ○ No

If No, provide Corrective Action Sample information below. If Yes, you next quarterly sample can be used as your Corrective Action Sample.

7. Corrective Action Sample Date: 06/25/2014

8. Corrective Action Sample Value: 8600 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

9. Have you claimed this outfall as a Representative Outfall? ○ Yes ● No

If Yes, Corrective Actions must be must be completed for all outfalls claming the Representative Outfall Waiver.

10. Describe the exceedance and its cause(s):

THE IRON EXCEEDANCE WAS CAUSED BY WATER SAMPLING BEING TAKEN TOO CLOSE TO AREAS WHERE FERROUS SCRAP OR PARTS VEHICLES WERE STORED AND SAMPLE BECAME CONCENTRATED.

11. Describe the Corrective Action(s) taken to address the exceedance:

MORE DILIGENCE WITH HOUSEKEEPING, INCLUDING SWEEPING UP THE CONCRETE SURFACES ON A MORE REGULAR BASIS.

12. Describe the preventative (long term) Corrective Action(s) taken (including any SWPPP modifications) to prevent a future exceedance:

IT IS NOT NECESSARY AT THIS TIME TO PUT ANY STRUCTURAL PROCESSES IN PLACE OR AMEND THE SWPPP OTHER THAN TO STRESS GREATER ADHERENCE TO THE PROPER BMP'S.

Initial LB Date 10/27/14

3548554622

1. Parameter/Pollutant of Concern Exceeded: ALUMINUM ✓

2. Outfall No.: 001 3. Date of Exceedance: 09/12/2013

4. Permitted Value: 750 Units: ○ mg/L ○ ng/L ● ug/L ○ s.u. ○ NTUs

5. Reported Value: 2700 Units: ○ mg/L ○ ng/L ● ug/L ○ s.u. ○ NTUs

6. Is the Parameter/Pollutant of Concern exceeded subject to quarterly compliance monitoring for discharges to impaired waterbodies? ○ Yes ● No

If No, provide Corrective Action Sample information below. If Yes, you next quarterly sample can be used as your Corrective Action Sample.

7. Corrective Action Sample Date: 06/25/2014

8. Corrective Action Sample Value: 1900 Units: ○ mg/L ○ ng/L ● ug/L ○ s.u. ○ NTUs

9. Have you claimed this outfall as a Representative Outfall? ○ Yes ● No

If Yes, Corrective Actions must be must be completed for all outfalls claming the Representative Outfall Waiver.

10. Describe the exceedance and its cause(s):

THE ALUMINUM EXCEEDANCE WAS CAUSED BY THE SAMPLE BEING TAKEN IN AREAS WHERE ALUMINUM SIDING OR ROOFING WAS PRESENT AND THIS INCREASED THE CONCENTRATION IN THE SAMPLE.

11. Describe the Corrective Action(s) taken to address the exceedance:

BECAME BETTER EDUCATED AS TO WHERE TO COLLECT WATER SAMPLE FROM SO ALUMINUM PARTICLES DO NOT APPEAR IN SAMPLE.

12. Describe the preventative (long term) Corrective Action(s) taken (including any SWPPP modifications) to prevent a future exceedance:

IT IS NOT NECESSARY AT THIS TIME TO PUT ANY STRUCTURAL PROCESSES IN PLACE OR AMEND THE SWPPP OTHER THAN TO STRESS GREATER ADHERENCE TO THE PROPER BMP'S.

Initial: [signature] Date: 6/27/14

9731554622

1. Parameter/Pollutant of Concern Exceeded: LEAD ✓

2. Outfall No.: 001 3. Date of Exceedance: 09 / 12 / 2013

4. Permitted Value: 69 Units: ○ mg/L ○ ng/L ● ug/L ○ s.u. ○ NTUs

5. Reported Value: 72 Units: ○ mg/L ○ ng/L ● ug/L ○ s.u. ○ NTUs

6. Is the Parameter/Pollutant of Concern exceeded subject to quarterly compliance monitoring for discharges to impaired waterbodies? ○ Yes ● No

If No, provide Corrective Action Sample information below. If Yes, you next quarterly sample can be used as your Corrective Action Sample.

7. Corrective Action Sample Date: 06 / 25 / 2014

8. Corrective Action Sample Value: 38 Units: ○ mg/L ○ ng/L ● ug/L ○ s.u. ○ NTUs

9. Have you claimed this outfall as a Representative Outfall? ○ Yes ● No

If Yes, Corrective Actions must be must be completed for all outfalls claming the Representative Outfall Waiver.

10. Describe the exceedance and its cause(s):

THE LEAD EXCEEDANCE WAS CAUSED BY THE SAMPLE BEING TAKEN TOO CLOSE TO AREAS WHERE ENGINES WERE STORED AND WATER FLOW BECAME CONCENTRATED.

11. Describe the Corrective Action(s) taken to address the exceedance:

FACILITY BECAME MORE AWARE REGARDING PLACEMENT OF LEAD TIRE WEIGHTS. THEY ARE NOW IN CONTAINERS, NOT ON GROUND.

12. Describe the preventative (long term) Corrective Action(s) taken (including any SWPPP modifications) to prevent a future exceedance:

IT IS NOT NECESSARYAT THIS TIME TO PUT ANY STRUCTURAL PROCESSES IN PLACE OR AMEND THE SWPPP OTHER THAN TO STRESS GREATER ADHERENCE TO THE PROPER BMP'S.

Initial: [illegible] Date: 6/27/14

9731554622

1. Parameter/Pollutant of Concern Exceeded: TOTAL SUSPENDED SOLIDS

2. Outfall No.: 001 3. Date of Exceedance: 09 / 12 / 2013

4. Permitted Value: 100 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

5. Reported Value: 120 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

6. Is the Parameter/Pollutant of Concern exceeded subject to quarterly compliance monitoring for discharges to impaired waterbodies? ○ Yes ● No

If No, provide Corrective Action Sample information below. If Yes, you next quarterly sample can be used as your Corrective Action Sample.

7. Corrective Action Sample Date: 06 / 25 / 2014

8. Corrective Action Sample Value: 59 Units: ○ mg/L ○ ng/L ● ug/L ○ s.u. ○ NTUs

9. Have you claimed this outfall as a Representative Outfall? ○ Yes ● No

If Yes, Corrective Actions must be must be completed for all outfalls claming the Representative Outfall Waiver.

10. Describe the exceedance and its cause(s):

THE EXCEEDANCE OF TOTAL SUSPENDED SOLIDS WAS CAUSED BY IMPROPER TESTING. WATER SAMPLE WAS TAKEN FROM RAIN PUDDLE THAT FORMED AND SOLID MATTER SETTLED ON BOTTOM. WHEN DISTURBED, SAMPLE BECAME CLOUDED WITH THE SUSPENDED SOLIDS.

11. Describe the Corrective Action(s) taken to address the exceedance:

BECAME MORE DILIGENT WITH SWEEPING SO THAT DUST AND DIRT PARTICLES THAT REMAIN ON GROUND DO NOT BECOME PART OF THE RAIN RUNOFF.

12. Describe the preventative (long term) Corrective Action(s) taken (including any SWPPP modifications) to prevent a future exceedance:

IT IS NOT NECESSARY AT THIS TIME TO PUT ANY STRUCTURAL PROCESSES IN PLACE OR AMEND THE SWPPP OTHER THAN TO STRESS GREATER ADHERENCE TO THE PROPER BMP'S.

Initial: [illegible] Date: 6/27/14

7/9/14

Amendment 7/22/14
See Attachment 1/4

574855462

COPY

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits
625 Broadway, Albany, New York 12233-3505
Phone: (518) 402-8111 **Fax:**(518) 402-9029
Website: http://www.dec.ny.gov/

SUBMITTED BY
TABS CONSULTING GROUP INC.
(718) 492-6464

Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities
(GP-0-12-001)

Corrective Action Form/Non Compliance Event Form

Permit Number
NYR00B428

Facility Name
LKQ HUNTS POINT AUTO PARTS CORP

Contact First Name
LOUIS

Contact Last Name
SCARNATI

Contact Phone
718-589-4444

Contact eMail
METRORTK@AOL.COM

Is this form being used to report a Corrective Action or a Non Compliance Event? ● Corrective Action ○ Event of Non Compliance

Instruction for using this form:
- Complete a separate attachment for each Parameter/Pollutant of Concern exceeded and for every outfall where the exceedance occurred.
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- If using this form as a Non-Compliance Event Form, questions 1, 2, 3, and 9 through 12 on each attachment must be answered
- Number each attachment (1 of XX, 2 of XX, 3 of XX, etc.)
- Initial and date each attachment
- Fill in number of attachments included in the box below
- The Owner/Operator must sign and date the certification statement below

Number of attachments included: 4

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblity of fine and imprisonment for knowing violations.

LOUIS — O/O Signature First Name (please print or type)

MI

SCARNATI — O/O Signature Last Name (please print or type)

06/27/2014 — Date

Signature

Amendment 1/22/14

5129554629

1. Parameter/Pollutant of Concern Exceeded: IRON

2. Outfall No.: 001 3. Date of Exceedance: 09 / 12 / 2014

4. Permitted Value: 1 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

5. Reported Value: 5.9 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

6. Is the Parameter/Pollutant of Concern exceeded subject to quarterly compliance monitoring for discharges to impaired waterbodies? ○ Yes ○ No

If No, provide Corrective Action Sample information below. If Yes, you next quarterly sample can be used as your Corrective Action Sample.

7. Corrective Action Sample Date: 06 / 25 / 2014

8. Corrective Action Sample Value: 8.6 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

9. Have you claimed this outfall as a Representative Outfall? ○ Yes ● No

If Yes, Corrective Actions must be must be completed for all outfalls claming the Representative Outfall Waiver.

10. Describe the exceedance and its cause(s):

THE IRON EXCEEDANCE WAS CAUSED BY WATER SAMPLING BEING TAKEN TOO CLOSE TO AREAS WHERE FERROUS SCRAP OR PARTS VEHICLES WERE STORED AND SAMPLE BECAME CONCENTRATED.

11. Describe the Corrective Action(s) taken to address the exceedance:

MORE DILIGENCE WITH HOUSEKEEPING, INCLUDING SWEEPING UP THE CONCRETE SURFACES ON A MORE REGULAR BASIS.

12. Describe the preventative (long term) Corrective Action(s) taken (including any SWPPP modifications) to prevent a future exceedance:

IT IS NOT NECESSARY AT THIS TIME TO PUT ANY STRUCTURAL PROCESSES IN PLACE OR AMEND THE SWPPP OTHER THAN TO STRESS GREATER ADHERENCE TO THE PROPER BMP'S.

 Initial [illegible] Date 1/27/14

SUBMITTED BY
FAX:5748554626
(718) 482-0464

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits
625 Broadway, Albany, New York 12233-3505
Phone: (518) 402-8111 **Fax:**(518) 402-9029
Website: http://www.dec.ny.gov/

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JUL 29 2015
BUREAU OF WATER PERMITS

Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities
(GP-0-12-001)

Corrective Action Form/Non Compliance Event Form

Permit Number
NYR00B428

Facility Name
LEQUHUNTS POINT AUTO PARTS CORP

Contact First Name
LOUIS

Contact Last Name
SCARNATI

Contact Phone
718-589-4444

Contact eMail
MERTORTK@AOL.COM

Is this form being used to report a Corrective Action or a Non Compliance Event? ○ Corrective Action ○ Event of Non Compliance

Instruction for using this form:
- Complete a separate attachment for each Parameter/Pollutant of Concern exceeded and for every outfall where the exceedance occurred.
- If using this form as a Corrective Action Form, all questions (1 through 12) on each attachment must be answered
- If using this form as a Non-Compliance Event Form, questions 1, 2, 3, and 9 through 12 on each attachment must be answered
- Number each attachment (1 of XX, 2 of XX, 3 of XX, etc.)
- Initial and date each attachment
- Fill in number of attachments included in the box below
- The Owner/Operator must sign and date the certification statement below

Number of attachments included: 002

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblity of fine and imprisonment for knowing violations.

LOUIS
O/O Signature First Name (please print or type)

MI

SCARNATI
O/O Signature Last Name (please print or type)

07/11/2015
Date

Signature

5129554629

1. Parameter/Pollutant of Concern Exceeded: ALUMINUM

2. Outfall No.: 001 3. Date of Exceedance: 06/25/2014

4. Permitted Value: 750 Units: ○ mg/L ○ ng/L ● ug/L ○ s.u. ○ NTUs

5. Reported Value: 1900 Units: ○ mg/L ○ ng/L ● ug/L ○ s.u. ○ NTUs

6. Is the Parameter/Pollutant of Concern exceeded subject to quarterly compliance monitoring for discharges to impaired waterbodies? ○ Yes ● No

If No, provide Corrective Action Sample information below. If Yes, you next quarterly sample can be used as your Corrective Action Sample.

7. Corrective Action Sample Date: 06/30/2015

8. Corrective Action Sample Value: 680 Units: ○ mg/L ○ ng/L ● ug/L ○ s.u. ○ NTUs

9. Have you claimed this outfall as a Representative Outfall? ○ Yes ● No

If Yes, Corrective Actions must be must be completed for all outfalls claming the Representative Outfall Waiver.

10. Describe the exceedance and its cause(s):

THE ALUMINUM EXCEEDANCE WAS CAUSED BY THE SAMPLE BEING TAKEN IN AREAS WHERE ALUMINUM GUTTER SPOUTS, ALUMINUM SIDING OR ROOFING WAS PRESENT AND THIS INCREASED THE CONCENTRATION IN THE SAMPLE.

11. Describe the Corrective Action(s) taken to address the exceedance:

TRAINING OF FACILITY STAFF SO EMPLOYEES ARE BETTER EDUCATED AS TO WHERE TO COLLECT WATER SAMPLE FROM SO ALUMINUM PARTICLES DO NOT APPEAR IN SAMPLE IN CONCENTRATED AMOUNTS.

12. Describe the preventative (long term) Corrective Action(s) taken (including any SWPPP modifications) to prevent a future exceedance:

IT IS NOT NECESSARY AT THIS TIME TO PUT ANY STRUCTURAL PROCESSES IN PLACE. AND THE SWPPP WILL BE AMENDED TO STRESS GREATER ADHERENCE TO THE PROPER BMP'S ALONG WITH SPECIFIC HOUSEKEEPING TECHNIQUES TO BE PUT IN PLACE.

 Initial:____ Date:_____

3548554622

1. Parameter/Pollutant of Concern Exceeded: IRON

2. Outfall No.: 001 3. Date of Exceedance: 06/25/2014

4. Permitted Value: 1 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

5. Reported Value: 8.16 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

6. Is the Parameter/Pollutant of Concern exceeded subject to quarterly compliance monitoring for discharges to impaired waterbodies? ○ Yes ● No

If No, provide Corrective Action Sample information below. If Yes, you next quarterly sample can be used as your Corrective Action Sample.

7. Corrective Action Sample Date: 06/30/2015

8. Corrective Action Sample Value: 0.680 Units: ● mg/L ○ ng/L ○ ug/L ○ s.u. ○ NTUs

9. Have you claimed this outfall as a Representative Outfall? ○ Yes ● No

If Yes, Corrective Actions must be must be completed for all outfalls claming the Representative Outfall Waiver.

10. Describe the exceedance and its cause(s):

THE IRON EXCEEDANCE WAS CAUSED BY WATER SAMPLING BEING TAKEN TOO CLOSE TO AREAS WHERE FERROUS SCRAP OR PARTS VEHICLES WERE STORED AND THE SAMPLE TAKEN BECAME CONCENTRATED.

11. Describe the Corrective Action(s) taken to address the exceedance:

TRAINING OF STAFF IN HOUSEKEEPING IMPORTANCE, INCLUDING SWEEPING UP THE CONCRETE SURFACES ON A MORE REGULAR BASIS.

12. Describe the preventative (long term) Corrective Action(s) taken (including any SWPPP modifications) to prevent a future exceedance:

IT IS NOT NECESSARY AT THIS TIME TO PUT ANY STRUCTURAL PROCESSES IN PLACE, AND THE SWPPP WILL BE AMENDED TO STRESS GREATER ADHERENCE TO THE PROPER BMP'S ALONG WITH SPECIFIC HOUSEKEEPING TECHNIQUES TO BE PUT IN PLACE.

Initial:____ Date:_____

6726335350

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits
625 Broadway, Albany, New York 12233-3505
Phone: (518) 402-8111 **Fax:**(518) 402-9029
Website: http://www.dec.ny.gov/

Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities
(GP-0-12-001)

Storm Event Data Form

Permit Number
NYR00B428

Facility Name
LKQ HUNTS POINT AUTO PARTS CORP

Contact First Name
LOUIS

Contact Last Name
SCARNATI

Contact Phone
718 - 589 - 4444

Contact eMail
JRACOSTA@LKQCORP.COM

Storm Event Date: 12 / 17 / 15

Storm Duration: 8.00 (in hours)

Rainfall measurment from Storm Event: 2.00 (in inches)

Date of last measurable Storm Event: 12 / 14 / 15

Duration between Storm Event sampled and end of previous measurable Storm Event: 36.00 (in hours)

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblity of fine and imprisonment for knowing violations.

LOUIS — O/O Signature First Name (please print or type)

MI

SCARNATI — O/O Signature Last Name (please print or type)

02 / 23 / 2016 — Date

Louis Scarnati — Signature

6726335350

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits
625 Broadway, Albany, New York 12233-3505
Phone: (518) 402-8111 Fax:(518) 402-9029
Website: http://www.dec.ny.gov/

RECEIVED
MAR 03 2017
BUREAU OF WATER PERMITS

Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities (GP-0-12-001)

Storm Event Data Form

Permit Number: NYR00B428

Facility Name: LKQ HUNTS POINT AUTO PARTS CORP

Contact First Name: LOUIS

Contact Last Name: SCARNATI

Contact Phone: 718-589-4444

Contact eMail: JRACOSTA@LKQCORP.COM

Storm Event Date: 11/15/16

Storm Duration: 08.00 (in hours)

Rainfall measurment from Storm Event: 01.25 (in inches)

Date of last measurable Storm Event: 10/30/16

Duration between Storm Event sampled and end of previous measurable Storm Event: 0360. (in hours)

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblity of fine and imprisonment for knowing violations.

LOUIS
O/O Signature First Name (please print or type)

MI

SCARNATI
O/O Signature Last Name (please print or type)

02/__/2017
Date

Louis Scarnati
Signature

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
One Hunters Point Plaza
47-40 21st Street, Long Island City, NY 11101
Petroleum Bulk Storage Unit
Phone: (718) 482-6454 • **Fax:** (718) 482-6390
Website: www.dec.ny.gov/chemical/4767.html

Date 1/6/15 PBS Number(s) 2-233366

Dear Petroleum Bulk Storage Tank Manager/Owner:

The enclosed Petroleum Bulk Storage Registration application and/or fee is being returned to you. This application cannot be processed for the following reason(s) checked below:

____ Your fee of $_____ was not enclosed.
____ The fee of $_____ you sent is incorrect. The correct fee is $_____.
____ Federal Tax ID Number or SS# has changed and application must be submitted as a Change of Ownership with applicable fee of $_____.
____ You used an outdated application. Please use the application form enclosed.
____ Federal Tax ID Number or SS# (in case of proprietorship) was not submitted or is incorrect.
____ The combined petroleum storage capacity of this facility is less than or equals 1,100 gallons and, therefore, registration of this facility is not required.
____ Duplicate tank numbers are unacceptable. Tank # _____ already exists at your facility.
____ Tank information is incorrect. Please see attached sheet and correct error items marked.
X Information is incorrect and/or missing as follows:
____ Section A: ___Name of operator & phone number; ___Owner's phone number; ___Owner's signature; ___Name of Owner or Authorized Representative; ___Title; ___Date; ___E-Mail Address.
_____
_____
____ Section B: ___Action; ___Tank Number; ___Tank Location; ___Status; ___Installation Date ___Permanent Closure Date; ___Capacity (Gallons); ___Product Stored; ___Tank Type; ___Tank Internal Protection; ___Tank External Protection; ___Tank Secondary Containment; ___Tank Leak Detection; ___Tank Overfill Protection; ___Tank Spill Prevention; ___Pumping/ Dispensing Method; ___Piping Location; ___Piping Type; ___Piping External Protection; ___Piping Secondary Containment; ___Piping Leak Detection.
X Section C.
____ Follow enclosed Instructions. *(If you have difficulty completing this form, contact your fuel supplier or consultant.*
____ Provide a copy of FDNY permit as proof of tank capacity.
____ Provide a copy of a deed page showing the date of ownership transfer.
____ Provide a copy of the Affidavit from a contractor as proof of tank closure.
____ Other _____
_____

This determination is based on the information provided on the application. Please make the requested changes and return a completed application and any other specified document within 10 days to: NYSDEC, PBS Unit, 47-40 21st Street, Long Island City, NY 11101. If you have any questions please call PBS Unit at (718) 482-6454 and refer to your PBS Number.

Sincerely,

Nick Lombardo
Petroleum Bulk Storage Unit

New York State Department of Environmental Conservation
Division of Environmental Remediation

Petroleum Bulk Storage Application

Pursuant to the Environmental Conservation Law: Article 17, Title 10; and
Regulations 6 NYCRR Parts 612-614 and 6 NYCRR Subpart 374-2
(Please Type or Print Clearly and Complete All Items for Sections A, B & C)

PBS Number: 2-233366

Return Completed Form & Fees To:

RECEIVED
NOV 02 2015
BUR. OF TECH. SUPPORT

Expiration Date: 04/26/2016

Section A - Facility/Property Owner/Contact Information

Transaction Type: 3

1) Initial/New Facility
2) Change of Ownership
3) Tank Installation, Closing, Repair or Reconditioning
4) Information Correction
5) Renewal

FACILITY

Facility Name: LKQ Hunts Point Auto Parts Corp
Tax Map Info: Borough/Section:
Facility Address (Physical Address, No P.O. Boxes): 1450 Sheridan Expressway
Block:
Facility Address (cont.):
Lot:
City: Bronx
State: NY
Zip Code: 10459
County: Bronx
Township or City: New York City
Name of Class B (Daily On-Site) Operator: Louis Scarnati
Facility Phone Number: 718-589-4444
Name of Class A (Primary) Operator: Joseph Segona

TYPE OF PETROLEUM FACILITY (Check only one)

- ☐ 01=Storage Terminal/Petrol. Distributor
- ☐ 02=Retail Gasoline Sales
- ☐ 03=Other Retail Sales
- ☐ 04=Manufacturing
- ☐ 05=Utility
- ☐ 06=Trucking/Transportation/Fleet
- ☐ 07=Apartment/Office Building
- ☐ 08=School
- ☐ 09=Farm
- ☐ 10=Private Residence
- ☐ 11=Airline/Air Taxi/Airport
- ☐ 12=Chemical Distributor
- ☐ 13=Municipality
- ☐ 15=Railroad
- ☐ 25=Auto Service/Repair (No Gasoline Sales)
- ☐ 26=Religious (Church, Synagogue, Mosque, Temple, etc.)
- ☐ 27=Hospital/Nursing Home/Health Care
- ☐ 28=Cemetery / Memorial
- ☐ 52=Marina
- ☒ 99=Other (Specify): Automotive Dismantling Salvage Yard

RECEIVED
NOV - 6 2015
NYSDEC REGION 2
ENVIRONMENTAL REMEDIATION

OWNER

Facility (Property) Owner (from Deed): LKQ Hunts Point Auto Parts Corp
Facility Owner Address (Street and/or P.O. Box): 120 North LaSalle St. Ste 910
City: Chicago
State: IL
Zip Code: 60602-2411
Federal Tax ID Number: 52-2163623
Owner Telephone Number: 718-589-4444

Type of Owner: (check only one)

1 ☐ Private Resident
2 ☐ State Government
3 ☐ Local Government
4 ☐ Federal Government
5 ☒ Corporate/Commercial/Other

NOTE: A new registration, change of ownership, and/or federal tax ID change must include a copy of the first page of the deed.

Emergency Contact Name: Louis Scarnati
Emergency Telephone Number: 917-440-6910

I hereby certify under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Name of Owner or Authorized Representative: Norman Tetler
Amount Enclosed: $ 0-
Title: Environmental Consultant
Signature:
Date: 10/26/2015

CORRESPONDENCE

(Please keep this information up to date. It is used for mailing and contact purposes)
Facility Contact Person Name:
Contact Person Company Name: Louis Scarnati - LKQ Hunts Point Auto Parts Corp
Address: 1450 Sheridan Expy
Address (cont.):
City/State/Zip Code: Bronx, NY 10459
Telephone Number: 718-589-4444
E-Mail Address:

The Application will be returned if incomplete. * indicates missing data**

OFFICIAL USE ONLY
Date Received ___/___/___
Date Processed ___/___/___
Amount Received $ _____
Reviewed by:

(revised 12/24/2012)

PBS Number: 2-233366

Section B - Tank Information

(Please use the key located on the other side of this page to complete each item/column)

Registration Expiration Date:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Action	Tank Number	Tank Location	Status	Installation or Permanent Closure Date (MM/DD/YYYY) **Application will be returned if blank or 00/00/0000**	Capacity (Gallons)	Product Stored (If Gasoline w/ethanol or Biodiesel, list %additive) %	Tank Type	Tank Internal Protection	Tank External Protection	Tank Secondary Containment	Tank Leak Detection	Tank Overfill Prevention	Tank Spill Prevention	Pumping/Dispensing Method	Piping Location	Piping Type	Piping External Protection	Piping Secondary Containment	Piping Leak Detection	Under Dispenser Containment (UDC) (Check box if present)
2	6	1	1	4/1/84	1000	00 03	2	00	01	01	06	04	01	02	a	02	2	2	02	☐
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Space for Writing in Additional Tanks (attached additional sheets as needed):

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
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TABS CONSULTING GROUP INC.

Experts to the Towing, Auto Body & Salvage Industries

2 52nd STREET – BOX B11

BROOKLYN, NY 11232-2602

(718) 492-6464 - FAX: (718) 492-4066

E-Mail: Towingassn@aol.com

THE ATTACHED PAPERWORK HAS BEEN PREPARED AND SUBMITTED AT THE REQUEST OF THE APPLICANT, TOGETHER WITH THE INFORMATION AND ATTACHMENTS THEY HAVE SUPPLIED TO OUR OFFICE.

IF THERE ARE ANY ISSUES WITH THIS MATERIAL PLEASE IMMEDIATELY CONTACT THE OFFICES OF TABS CONSULTING GROUP SO WE CAN STRAIGHTEN OUT ANY MISUNDERSTANDING OR DISCREPANCY.

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Compliance, 4th Floor
625 Broadway, Albany, New York 12233-3506
Phone: (518) 402-8177 • **Fax:** (518) 402-8082
Website: www.dec.ny.gov

Joe Martens
Commissioner

April 28, 2014

LKQ HUNTS POINT AUTO PARTS CORP
1480 SHERIDAN EXPY
BRONX, NY 10459

Re: **REMINDER TO SUBMIT CORRECTIVE ACTION FORM**
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP
SPDES ID**: NYR00B428**

Dear Permittee:

You submitted a Notice of Intent (NOI) to the Department to gain coverage under New York's State Pollutant Discharge Elimination System (SPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities (GP-0-12-001)(general permit). The facility, LKQ HUNTS POINT AUTO PARTS CORP, 1480 SHERIDAN EXPY, BRONX, is now operating under the general permit and needs to comply with the terms and conditions of the permit.

According to Part IV.B.1.c.(6) and Part IV.B.1.e.(5) of the general permit, if the results of one or more parameters exceeds the applicable benchmark or effluent limitation, the owner or operator must report to the Department on a Corrective Action Form, the results of the exceedance(s), corrective action(s) taken and the results of a follow-up sample.

A follow-up stormwater sample must be collected between January 1st and June 30th. The sample needs to be taken from the same outfall(s) where the exceedance(s) occurred; this includes any outfalls not tested the previous year because of the use of the representative outfall waiver (Example: you sampled outfall 001 and claimed it represented the discharge at outfall 002. You must sample and analyze the exceeded parameter(s) at both outfalls 001 and 002). Complete laboratory analysis for the pollutant(s) that exceeded the limit(s) must be conducted. This sample collection and analysis is in addition to the sample collection required for the annual compliance sampling. Please consult the applicable section of the permit for more information on this requirement. A copy of the permit is located on the Department website at the following link:
http://www.dec.ny.gov/docs/water_pdf/gp12001.pdf

If corrective actions do not result in achieving benchmark monitoring cut-off concentrations and/or effluent limitation guidelines, the facility must continue its efforts to implement additional best management practices (BMPs) to reduce the pollutant being discharged from the property. Continued exceedance of benchmark cut-off concentrations and/or effluent limitations guidelines may identify facilities that would be more appropriately covered under an individual SPDES permit.

The DMR you submitted to the Department for the annual monitoring period ending 12/31/2013, indicated exceedance(s) of the benchmark and/or effluent limitation(s) for the following outfall(s)

and parameter(s):

Outfall 001 - Aluminum, total recoverable Outfall 001 - Iron, total recoverable Outfall 001 - Lead, total recoverable Outfall 001 - Solids, total suspended

The Corrective Action Form, with the results from follow-up sampling, is due to the Department by July 31st, 2014. Failure to submit the Corrective Action Form to the Department and/or take the necessary corrective actions, are violations of your SPDES permit and Article 17 of the New York State Environmental Conservation Law (ECL) and could result in civil penalties.

A copy of the Corrective Action Form is enclosed. It is located on the DEC website at the following link: http://www.dec.ny.gov/docs/water_pdf/msgpcaf.pdf Please note that this form also serves as the Report of Non-Compliance Event Form.

If you have any questions regarding this matter or need assistance in completing the Corrective Action Form, please contact Holly Shear at 518-402-8175.

Sincerely,

Meredith Streeter

Meredith Streeter, P.E.
Bureau of Water Compliance

cc: RWE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Bureau of Water Compliance
625 Broadway, Albany, New York 12233-3506
P: (518) 402-8177 | F: (518) 402-8082
www.dec.ny.gov

August 29, 2018

LKQ HUNTS POINT AUTO PARTS CORP
1480 SHERIDAN EXPY
BRONX, NY 10459

Re: **NOTICE OF VIOLATION FOR FAILURE TO SUBMIT THE ANNUAL CERTIFICATION REPORT (ACR)**
FACILITY: LKQ HUNTS POINT AUTO PARTS CORP

SPDES ID: NYR00B428

Dear Permittee:

You submitted a Notice of Intent (NOI) form to this Department to gain authorization to discharge stormwater from your industrial facility, LKQ HUNTS POINT AUTO PARTS CORP, 1480 SHERIDAN EXPY, BRONX, to the waters of the State. Having submitted your NOI, you are operating under New York's State Pollutant Discharge Elimination System (SPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities (GP-0-12-001) and are therefore bound to comply with the terms and conditions of the permit.

Part IV. D. of the general permit requires you to submit an ACR to the Department by February 28th of each year. As of the date of this letter, the ACR has not been received for calendar year 2017.

Failure to submit a required ACR is a violation of your SPDES permit and Article 17 of the New York State Environmental Conservation Law (ECL). ECL §71-1929 provides for civil penalties of up to thirty-seven thousand five-hundred dollars ($37,500) per day per violation.

In order to resolve and settle this matter without a financial penalty, you must complete the ACR form for year 2017 and submit it to this office no later than 30 days from the date of this letter: **New York State Department of Environmental Conservation, Bureau of Water Permits, 625 Broadway - 4th Floor, Albany, New York 12233-3506.**

The form may be downloaded from the DEC website at the following address: http://www.dec.ny.gov/docs/water_pdf/msgpanncertform.pdf .

If you have any questions regarding this matter or if you need assistance in completing the ACR, please contact Holly Shear at 518-402-8175 or via email at: holly.shear@dec.ny.gov.

Sincerely,



Meredith Streeter, P.E.
Chief, SPDES Compliance Information

cc: RWE

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits, 4th Floor
625 Broadway, Albany, New York 12233-3505
Phone: (518) 402-8111 **Fax:** (518) 402-9029 **Website:** www.dec.state.ny.us

Joe Martens
Commissioner

March 29, 2013

LKQ HUNTS POINT AUTO PARTS CORP
LKQ HUNTS POINT AUTO PARTS CORP
1480 SHERIDAN EXPY
BRONX, NY 10459

Re: Acknowledgement of Notice of Intent for Coverage under SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-12-001)

Dear LOUIS SCARNATI:

This is to acknowledge that the New York State Department of Environmental Conservation (the Department) has received a complete Notice of Intent (NOI) for coverage under the State Pollutant Discharge Elimination System (SPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP) GP-0-12-001 for the following facility:

LKQ HUNTS POINT AUTO PARTS CORP
1480 SHERIDAN EXPY
BRONX, NY 10459

The permit identification number for this facility is NYR00B428. Please be sure to include this permit identification number on any forms or correspondence you send the Department related to this general permit.

Unless notified by the Department to the contrary, this authorization becomes effective 30 calendar days after the NOI receive date of 12/31/2012, and is conditioned upon the following:

- The information submitted in the NOI received by the Department is accurate and complete.
- The Owner or Operator has developed and is implementing a Stormwater Pollution Prevention Plan (SWPPP) that complies with MSGP GP-0-12-001.
- When applicable, project review pursuant to the State Environmental Quality Review Act (SEQR) has been satisfied.
- All applicable Uniform Procedures Act (Environmental Conservation Law, 6NYRCC Part 621) permits have been obtained. Contact your Regional Permit Administrator (http://www.dec.ny.gov/permits/363.html) for further information.

Please be advised that an Annual Certification Report (ACR) must be completed and submitted for each facility that has obtained permit coverage under this general permit. A copy of the ACR can be found on the Departments website, listed on the next page. An ACR must be completed at the end of calendar year 2013 and must be submitted by February 28, 2014, to:

MSGP Permit Coordinator
NYSDEC, Division of Water
Bureau of Water Permits
625 Broadway
Albany, New York 12233-3505

An ACR must be completed and submitted for each calendar year, thereafter, by February 28th.

In addition to the above, if your facility has stormwater discharges that are subject to benchmark or compliance monitoring (based upon information submitted in your NOI), then you are required to submit your sampling results on Discharge Monitoring Report (DMR) forms. These forms must be completed and submitted along with your Annual Certification Report as indicated above. DMRs will be sent to your facility in 2013. Only results submitted on DMRs provided by the Department will be accepted. The Owner or Operator is responsible for making sure they understand all monitoring requirements and have the appropriate forms. If you do not receive the correct DMRs, please contact the Department.

If the result of one or more parameters for which analysis of benchmark or compliance monitoring was required exceeds the applicable benchmark cut-off concentration or effluent limitation, the facility must implement corrective actions to address the exceedance. Corrective actions include identifying the cause of the exceedance, implementing BMPs to address the cause of the exceedance, revisions to the facility's SWPPP to prevent the exceedance from reoccurring, and collecting an additional sample to determine the effectiveness of the corrective action. The facility must collect the additional sample at the outfall where the exceedance occurred during the first six months of the following calendar year and complete analysis for the pollutant(s) that exceeded the benchmark cut-off concentration or effluent limitation. Results of the analysis must be reported on a Corrective Action Form by July 31st of the calendar year which the sample was collected. A copy of the Corrective Action Form can be found on the Department's website.

If there are changes to your existing general permit or if you no longer need this general permit you must submit a Notice of Modification (NOM) form to modify your general permit or a Notice of Termination (NOT) form to terminate your general permit as soon as possible. If you are selling the facility, it is your responsibility to submit a NOT terminating your coverage and you must notify the new owner, in writing, of the need to obtain the general permit for stormwater discharges.

The Department's website contains the following links related to the MSGP:

Stormwater Information Page	http://www.dec.ny.gov/chemical/8468.html
Multi-Sector General Permit Page	http://www.dec.ny.gov/chemical/9009.html
The MSGP Toolbox	http://www.dec.ny.gov/chemical/62803.html
Notice of Intent Form	http://www.dec.ny.gov/docs/water_pdf/gpnoi.pdf
Notice of Termination Form	http://www.dec.ny.gov/docs/water_pdf/msgp012001not.pdf
Notice of Modification Form	Coming Soon!
Annual Certification Form	http://www.dec.ny.gov/chemical/9009.html
Corrective Action Form	Coming Soon!

No Exposure Page http://www.dec.ny.gov/chemical/62833.html

No Exposure Certification Form http://www.dec.ny.gov/docs/water_pdf/noexposure.pdf

The annual regulatory fee for the MSGP will be billed by the Department each fall.

Coverage under this permit does not necessarily mean that you do not need other permits under the Uniform Procedures Act. You should check with your Regional Permit Administrator (http://www.dec.ny.gov/permits/363.html) for further information.

If you have any questions or require additional information, please contact me at (518) 402-8244 or rpwaldro@gw.dec.state.ny.us.

Sincerely,



Ryan P. Waldron, P.E.
MSGP Permit Coordinator

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Bureau of Water Compliance
625 Broadway, Albany, New York 12233-3506
P: (518) 402-8177 | F: (518) 402-8082
www.dec.ny.gov

August 29, 2018

LKQ HUNTS POINT AUTO PARTS CORP
1480 SHERIDAN EXPY
BRONX, NY 10459

Re: **NOTICE OF VIOLATION FOR FAILURE TO SUBMIT DISCHARGE MONITORING REPORT (DMR)**
FACILITY: **LKQ HUNTS POINT AUTO PARTS CORP**
SPDES ID**: NYR00B428**

Dear Permittee:

You submitted a Notice of Intent (NOI) form to this Department to gain authorization to discharge stormwater from your industrial facility, LKQ HUNTS POINT AUTO PARTS CORP, 1480 SHERIDAN EXPY, BRONX, to the waters of the State. Having submitted your NOI, you are operating under New York's State Pollutant Discharge Elimination System (SPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities (GP-0-12-001) and are therefore bound to comply with the terms and conditions of the permit.

Part IV. D. of the general permit requires you to submit Discharge Monitoring Reports (DMR(s)) to the Department by February 28th of each year. As of the date of this letter, the DMR(s) for the following outfall(s) and/or limit set(s) has not been received or is incomplete for calendar year 2017:

001A

Failure to submit a required DMR is a violation of your SPDES permit and Article 17 of the New York State Environmental Conservation Law (ECL). ECL §71-1929 provides for civil penalties of up to thirty-seven thousand five-hundred dollars ($37,500) per day per violation.

In order to resolve and settle this matter without a financial penalty, you must complete the attached page and return it along with any required complete DMRs within 30 days of the date of this letter.

If you have any questions regarding this matter, need a copy of your blank DMR or need assistance in completing the DMR, please contact Holly Shear at 518-402-8175 or via email at: Holly.shear@dec.ny.gov.

NEW YORK STATE | Department of Environmental Conservation

Sincerely,



Meredith Streeter, P.E.
Chief, SPDES Compliance Information

Cc: RWE

R-02 NYR00B428

Mail a copy of both sides of this letter and any attachments to: MSGP Permit Coordinator, NYSDEC Division of Water, 625 Broadway - 4th Fl, Albany, New York 12233-3506**.**

Retain a copy of this letter and any attachments you enclose for your records.

Check and complete all appropriate items below in order to resolve this matter:

[ ] The DMR(s) was/were sent to NYSDEC Albany Office on the following date(s): _____; and I have attached to this letter copy(ies) of the DMR(s) with an original signature.

[ ] The DMR(s) was/were not sent to NYSDEC. Attached are the required DMR(s) with original signature. (Blank DMR forms may be requested by calling Holly Shear at 518-402-8175.)

[ ] A sample was not taken this year. I did not collect a stormwater sample because:

_____

_____

[ ] The DMR mailing address is incorrect. I have submitted a Notice of Modification to correct this address.

[ ] I am no longer required to submit DMRs because:

_____

_____

(Attach any supporting documentation. For permit modification, transfer or termination, please contact Steven McCague at (518) 402-8108 for additional paperwork.)

Your Name: _____

Title: _____

Company: _____

Signature: _____

Date: _____

8246197221

BUREAU OF WATER PERMITS
RECEIVED
MAR 31 2008

Annual Certification Report
SPDES Multi-Sector General Permit for Stormwater
Discharges Associated with Industrial Activity (GP-0-06-002)

The permittee shall complete this Annual Certification Report form by answering the following questions, describing improvements to the facility's Stormwater Pollution Prevention Plan (SWPPP), provide copies of monitoring results on appropriate Monitoring Reports Forms and signing the certification at the end of this form. This completed report is to be submitted each calendar year by March 31st of the following year to: Industrial Stormwater General Permit Coordinator, NYSDEC, Bureau of Water Permits, 625 Broadway, Albany, NY, 12233-3505

SECTION I: FACILITY INFORMATION

Permit I.D. No.: NYR00 B428 **Report for Calendar Year:** 2007

Owner Name

LKQ HUNTS POINT AUTO PARTS CORP.

Facility Name

LKQ HUNTS POINT AUTO PARTS CORP.

SECTION II: GENERAL INFORMATION:

1. List the number of stormwater outfalls at the facility that are from areas of industrial activity. .....

2. Is the facility claiming any monitoring waivers? ..... ○ Yes ● No
[describe and certify in your cover letter]
   - ○ Representative Outfall
   - ○ Inactive or Unstaffed Site
   - ○ Adverse Climatic Conditions
   - ○ Alternate Certification of "Not Present" or "No Exposure"

3. Is the information provided in your original Notice of Intent or Termination (NOIT) submission still accurate and up to date? If not, please submit an updated NOIT indicating the correct facility information. ..... ● Yes ○ No

4. Has a comprehensive site compliance evaluation been conducted at the facility in the past year? ..... ● Yes ○ No

5. Is the facility's Stormwater Pollution Prevention Plan (SWPPP) kept up to date and modified when necessary? ..... ● Yes ○ No

SECTION III: QUARTERLY VISUAL EXAMINATIONS AND DRY WEATHER FLOW INSPECTIONS:

6. Have the required quarterly visual examinations of stormwater at the facility been performed during this reporting period? ..... ● Yes ○ No

7. Did any of the quarterly visual examinations result in observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, or other indicators of stormwater pollution and contamination? ..... ● Yes ○ No

8. Was the annual dry weather flow inspection performed during this reporting period? ..... ● Yes ○ No ○ NA

9. Were any indicators of stormwater pollution or unauthorized discharges identified? ..... ○ Yes ● No ○ NA

10. Did any of these findings result in modification of the SWPPP? ..... ○ Yes ● No ○ NA

SECTION IV: STORMWATER MONITORING - BENCHMARK PARAMETERS:

11. Is the permittee required to monitor stormwater at the facility for benchmark parameters? (If no, skip to Section V) ..... ● Yes ○ No

12. Were there any of the sampling results from this year higher than the cut-off values listed in the permit? ..... ○ Yes ● No

13. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

14. If any of the sampling results were higher than the benchmark values listed in the permit, was the facility inspected to identify the source? ..... ○ Yes ○ No ● NA

15. Did this result in modification of the SWPPP? ..... ○ Yes ● No

SECTION V: STORMWATER MONITORING - COMPLIANCE MONITORING

16. Is the permittee required to conduct compliance monitoring for storm water discharges subject to Point Source Category Effluent Limitation? ..... ○ Yes ● No

17. Is the permittee required to conduct compliance monitoring for storm water discharges from coal piles? (If no to questions 16 & 17, go to Section VI) ..... ○ Yes ● No

18. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

19. Were any of the sampling results from this year higher than the effluent limitation listed in the permit? ..... ○ Yes ● No

20. If any of the sampling results were higher than the effluent limitations listed in the permit, was the facility inspected to identify the source? ..... ○ Yes ○ No ● NA

21. Did this result in modification of the SWPPP? ..... ○ Yes ● No

SECTION VI: SUMMARY

Provide a brief description of any facility changes; problems identified during comprehensive compliance evaluations, quarterly visual observations or monitoring results; and action taken to improve the quality of the stormwater discharge.

This facility was unaware that analytical testing was required during 2007. Notice from NYS DEC Division of Water enclosing the Discharge Monitoring Report was received too late to do analytical testing during calendar year 2007. The required testing will be performed during 2008.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

LOUIS — Owner/Operator First Name (please print or type) — MI

03/15/2008 — Date

SCARNATI — Owner/Operator Last Name (please print or type)

8246197221

SUBMITTED BY METROPOLITAN NY TOWING, AUTO BODY & SALVAGE ASSN (718) 492-6464

BUREAU OF WATER PERMITS RECEIVED APR 02 2009

MAR 30 2009

Annual Certification Report
SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-06-002)

The permittee shall complete this Annual Certification Report form by answering the following questions, describing improvements to the facility's Stormwater Pollution Prevention Plan (SWPPP), provide copies of monitoring results on appropriate Monitoring Reports Forms and signing the certification at the end of this form. This completed report is to be submitted each calendar year by March 31st of the following year to: Industrial Stormwater General Permit Coordinator, NYSDEC, Bureau of Water Permits, 625 Broadway, Albany, NY, 12233-3505

SECTION I: FACILITY INFORMATION

Permit I.D. No.: NYR00 B 4 2 8 **Report for Calendar Year:** 2 0 0 8

Owner Name

LKQ HUNTS POINT AUTO PARTS CORP

Facility Name

LKQ HUNTS POINT AUTO PARTS CORP

SECTION II: GENERAL INFORMATION:

1. List the number of stormwater outfalls at the facility that are from areas of industrial activity. 0 0 1

2. Is the facility claiming any monitoring waivers? ..... ○ Yes ● No
[describe and certify in your cover letter]
   - ○ Representative Outfall
   - ○ Inactive or Unstaffed Site
   - ○ Adverse Climatic Conditions
   - ○ Alternate Certification of "Not Present" or "No Exposure"

3. Is the information provided in your original Notice of Intent or Termination (NOIT) submission still accurate and up to date? If not, please submit an updated NOIT indicating the correct facility information. ..... ● Yes ○ No

4. Has a comprehensive site compliance evaluation been conducted at the facility in the past year? ..... ● Yes ○ No

5. Is the facility's Stormwater Pollution Prevention Plan (SWPPP) kept up to date and modified when necessary? ..... ● Yes ○ No

SECTION III: QUARTERLY VISUAL EXAMINATIONS AND DRY WEATHER FLOW INSPECTIONS:

6. Have the required quarterly visual examinations of stormwater at the facility been performed during this reporting period? ..... ● Yes ○ No

7. Did any of the quarterly visual examinations result in observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, or other indicators of stormwater pollution and contamination? ..... ○ Yes ● No

8. Was the annual dry weather flow inspection performed during this reporting period? ..... ● Yes ○ No ○ NA

9. Were any indicators of stormwater pollution or unauthorized discharges identified? ..... ○ Yes ● No ○ NA

10. Did any of these findings result in modification of the SWPPP? ..... ○ Yes ● No ○ NA

SECTION IV: STORMWATER MONITORING - BENCHMARK PARAMETERS:

11. Is the permittee required to monitor stormwater at the facility for benchmark parameters? (If no, skip to Section V) ..... ● Yes ○ No

12. Were there any of the sampling results from this year higher than the cut-off values listed in the permit? ..... ● Yes ○ No

13. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

14. If any of the sampling results were higher than the benchmark values listed in the permit, was the facility inspected to identify the source? ..... ● Yes ○ No ○ NA

15. Did this result in modification of the SWPPP? ..... ● Yes ○ No

SECTION V: STORMWATER MONITORING - COMPLIANCE MONITORING

16. Is the permittee required to conduct compliance monitoring for storm water discharges subject to Point Source Category Effluent Limitation? ..... ○ Yes ● No

17. Is the permittee required to conduct compliance monitoring for storm water discharges from coal piles? (If no to questions 16 & 17, go to Section VI) ..... ○ Yes ● No

18. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

19. Were any of the sampling results from this year higher than the effluent limitation listed in the permit? ..... ○ Yes ● No

20. If any of the sampling results were higher than the effluent limitations listed in the permit, was the facility inspected to identify the source? ..... ○ Yes ○ No ● NA

21. Did this result in modification of the SWPPP? ..... ○ Yes ● No

SECTION VI: SUMMARY

Provide a brief description of any facility changes; problems identified during comprehensive compliance evaluations, quarterly visual observations or monitoring results; and action taken to improve the quality of the stormwater discharge.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

JULIA
Owner/Operator First Name (please print or type)

MI

03/24/2009
Date

ACOSTA
Owner/Operator Last Name (please print or type)

Julia Acosta

97024899784

SUBMITTED BY METROPOLITAN NY TOWING, AUTO BODY & SALVAGE ASSN (718) 492-6464

BUREAU OF WATER PERMITS RECEIVED APR 09 2010

Annual Certification Report
SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-06-002)

The permittee shall complete this Annual Certification Report form by answering the following questions, describing improvements to the facility's Stormwater Pollution Prevention Plan (SWPPP), provide copies of monitoring results on appropriate Monitoring Reports Forms and signing the certification at the end of this form. This completed report is to be submitted each calendar year by March 31st of the following year to: Industrial Stormwater General Permit Coordinator, NYSDEC, Bureau of Water Permits, 625 Broadway, Albany, NY, 12233-3505

SECTION I: FACILITY INFORMATION

Permit I.D. No.: NYR00 B 4 2 8 **Report for Calendar Year:** 2 0 0 9

Owner Name

LKQ HUNTS POINT AUTO PARTS CORP

Facility Name

LKQ HUNTS POINT AUTO PARTS CORP

SECTION II: GENERAL INFORMATION:

1. List the number of stormwater outfalls at the facility that are from areas of industrial activity. 0 0 1

2. Is the facility claiming any monitoring waivers? ..... ○ Yes ● No
[describe and certify in your cover letter]
   - ○ Representative Outfall
   - ○ Inactive or Unstaffed Site
   - ○ Adverse Climatic Conditions
   - ○ Alternate Certification of "Not Present" or "No Exposure"

3. Is the information provided in your original Notice of Intent or Termination (NOIT) submission still accurate and up to date? If not, please submit an updated NOIT indicating the correct facility information. ..... ● Yes ○ No

4. Has a comprehensive site compliance evaluation been conducted at the facility in the past year? ..... ● Yes ○ No

5. Is the facility's Stormwater Pollution Prevention Plan (SWPPP) kept up to date and modified when necessary? ..... ● Yes ○ No

SECTION III: QUARTERLY VISUAL EXAMINATIONS AND DRY WEATHER FLOW INSPECTIONS:

6. Have the required quarterly visual examinations of stormwater at the facility been performed during this reporting period? ..... ● Yes ○ No

7. Did any of the quarterly visual examinations result in observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, or other indicators of stormwater pollution and contamination? ..... ○ Yes ● No

8. Was the annual dry weather flow inspection performed during this reporting period? ..... ● Yes ○ No

9. Were any indicators of stormwater pollution or unauthorized discharges identified? ..... ○ Yes ● No

10. Did any of these findings result in modification of the SWPPP? ..... ○ Yes ○ No ● NA

SECTION IV: STORMWATER MONITORING - BENCHMARK PARAMETERS:

11. Is the permittee required to monitor stormwater at the facility for benchmark parameters? (If no, skip to Section V) ..... ● Yes ○ No

12. Were there any of the sampling results from this year higher than the cut-off values listed in the permit? ..... ● Yes ○ No

13. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

14. If any of the sampling results were higher than the benchmark values listed in the permit, was the facility inspected to identify the source? ..... ● Yes ○ No ○ NA

15. Did this result in modification of the SWPPP? ..... ○ Yes ● No

SECTION V: STORMWATER MONITORING - COMPLIANCE MONITORING

16. Is the permittee required to conduct compliance monitoring for storm water discharges subject to Point Source Category Effluent Limitation? ..... ● Yes ● No

17. Is the permittee required to conduct compliance monitoring for storm water discharges from coal piles? (If no to questions 16 & 17, go to Section VI) ..... ○ Yes ● No

18. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

19. Were any of the sampling results from this year higher than the effluent limitation listed in the permit? ..... ○ Yes ● No

20. If any of the sampling results were higher than the effluent limitations listed in the permit, was the facility inspected to identify the source? ..... ○ Yes ● No ○ NA

21. Did this result in modification of the SWPPP? ..... ○ Yes ● No

SECTION VI: SUMMARY

Provide a brief description of any facility changes; problems identified during comprehensive compliance evaluations, quarterly visual observations or monitoring results; and action taken to improve the quality of the stormwater discharge.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

LOUIS
Owner/Operator First Name (please print or type)

MI

03/31/2010
Date

SCARNATI
Owner/Operator Last Name (please print or type)

SUBMITTED BY
METRO 2248978 NY TOWING,
AUTO BODY & SALVAGE ASSN
(718) 492-6464

Annual Certification Report
SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-0-06-002)

The permittee shall complete this Annual Certification Report form by answering the following questions, describing improvements to the facility's Stormwater Pollution Prevention Plan (SWPPP), provide copies of monitoring results on appropriate Monitoring Reports Forms and signing the certification at the end of this form. This completed report is to be submitted each calendar year by March 31st of the following year to: Industrial Stormwater General Permit Coordinator, NYSDEC, Bureau of Water Permits, 625 Broadway, Albany, NY, 12233-3505

SECTION I: FACILITY INFORMATION

Permit I.D. No.: NYR00 B 4 2 8 **Report for Calendar Year:** 2 0 1 0

Owner Name

LKQ HUNTS POINT AUTO CORP

Facility Name

LKQ HUNTS POINT AUTO CORP

SECTION II: GENERAL INFORMATION:

1. List the number of stormwater outfalls at the facility that are from areas of industrial activity. 0 0 1

2. Is the facility claiming any monitoring waivers? ..... ○ Yes ● No
[describe and certify in your cover letter]
   - ○ Representative Outfall
   - ○ Inactive or Unstaffed Site
   - ○ Adverse Climatic Conditions
   - ○ Alternate Certification of "Not Present" or "No Exposure"

3. Is the information provided in your original Notice of Intent or Termination (NOIT) submission still accurate and up to date? If not, please submit an updated NOIT indicating the correct facility information. ..... ● Yes ○ No

4. Has a comprehensive site compliance evaluation been conducted at the facility in the past year? ..... ● Yes ○ No

5. Is the facility's Stormwater Pollution Prevention Plan (SWPPP) kept up to date and modified when necessary? ..... ● Yes ○ No

SECTION III: QUARTERLY VISUAL EXAMINATIONS AND DRY WEATHER FLOW INSPECTIONS:

6. Have the required quarterly visual examinations of stormwater at the facility been performed during this reporting period? ..... ● Yes ○ No

7. Did any of the quarterly visual examinations result in observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, or other indicators of stormwater pollution and contamination? ..... ○ Yes ● No

8. Was the annual dry weather flow inspection performed during this reporting period? ..... ● Yes ○ No

9. Were any indicators of stormwater pollution or unauthorized discharges identified? ..... ○ Yes ● No

10. Did any of these findings result in modification of the SWPPP? ..... ○ Yes ● No ○ NA

4/25/2011
TB

SECTION IV: STORMWATER MONITORING - BENCHMARK PARAMETERS:

11. Is the permittee required to monitor stormwater at the facility for benchmark parameters? (If no, skip to Section V) ..... ● Yes ○ No

12. Were there any of the sampling results from this year higher than the cut-off values listed in the permit? ..... ○ Yes ● No

13. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

14. If any of the sampling results were higher than the benchmark values listed in the permit, was the facility inspected to identify the source? ..... ○ Yes ○ No ● NA

15. Did this result in modification of the SWPPP? ..... ○ Yes ● No

SECTION V: STORMWATER MONITORING - COMPLIANCE MONITORING

16. Is the permittee required to conduct compliance monitoring for storm water discharges subject to Point Source Category Effluent Limitation? ..... ○ Yes ● No

17. Is the permittee required to conduct compliance monitoring for storm water discharges from coal piles? (If no to questions 16 & 17, go to Section VI) ..... ○ Yes ● No

18. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

19. Were any of the sampling results from this year higher than the effluent limitation listed in the permit? ..... ○ Yes ● No

20. If any of the sampling results were higher than the effluent limitations listed in the permit, was the facility inspected to identify the source? ..... ○ Yes ● No ○ NA

21. Did this result in modification of the SWPPP? ..... ○ Yes ● No

SECTION VI: SUMMARY

Provide a brief description of any facility changes, problems identified during comprehensive compliance evaluations, quarterly visual observations or monitoring results; and action taken to improve the quality of the stormwater discharge.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

LOUIS
Owner/Operator First Name (please print or type)

MI

03/29/2011
Date

SCARDATI
Owner/Operator Last Name (please print or type)

8246197221
SUBMITTED BY
LABS CONSULTING GROUP INC.
(718) 492-6464

Division of Water
RECEIVED
APR 08 2013
BUREAU OF WATER PERMITS

Annual Certification Report
SPDES Multi-Sector General Permit for Stormwater
Discharges Associated with Industrial Activity (GP-0-06-002)

The permittee shall complete this Annual Certification Report form by answering the following questions, describing improvements to the facility's Stormwater Pollution Prevention Plan (SWPPP), provide copies of monitoring results on appropriate Monitoring Reports Forms and signing the certification at the end of this form. This completed report is to be submitted each calendar year by March 31st of the following year to: Industrial Stormwater General Permit Coordinator, NYSDEC, Bureau of Water Permits, 625 Broadway, Albany, NY, 12233-3505

SECTION I: FACILITY INFORMATION

Permit I.D. No.: NYR00 B 4 2 8 **Report for Calendar Year:** 2 0 1 2

Owner Name

LKQ HUNTS POINT AUTO PARTS CORP

Facility Name

LKQ HUNTS POINT AUTO PARTS CORP

SECTION II: GENERAL INFORMATION:

1. List the number of stormwater outfalls at the facility that are from areas of industrial activity. 0 0 1

2. Is the facility claiming any monitoring waivers? ..... ○ Yes ● No
[describe and certify in your cover letter]
   - ○ Representative Outfall
   - ○ Inactive or Unstaffed Site
   - ○ Adverse Climatic Conditions
   - ○ Alternate Certification of "Not Present" or "No Exposure"

3. Is the information provided in your original Notice of Intent or Termination (NOIT) submission still accurate and up to date? If not, please submit an updated NOIT indicating the correct facility information. ..... ● Yes ○ No

4. Has a comprehensive site compliance evaluation been conducted at the facility in the past year? ..... ● Yes ○ No

5. Is the facility's Stormwater Pollution Prevention Plan (SWPPP) kept up to date and modified when necessary? ..... ● Yes ○ No

SECTION III: QUARTERLY VISUAL EXAMINATIONS AND DRY WEATHER FLOW INSPECTIONS:

6. Have the required quarterly visual examinations of stormwater at the facility been performed during this reporting period? ..... ● Yes ○ No

7. Did any of the quarterly visual examinations result in observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, or other indicators of stormwater pollution and contamination? ..... ○ Yes ● No

8. Was the annual dry weather flow inspection performed during this reporting period? ..... ● Yes ○ No ○ NA

9. Were any indicators of stormwater pollution or unauthorized discharges identified? ..... ○ Yes ● No ○ NA

10. Did any of these findings result in modification of the SWPPP? ..... ○ Yes ● No ○ NA

2001197224

SECTION IV: STORMWATER MONITORING - BENCHMARK PARAMETERS:

11. Is the permittee required to monitor stormwater at the facility for benchmark parameters? (If no, skip to Section V) ..... ● Yes ○ No

12. Were there any of the sampling results from this year higher than the cut-off values listed in the permit? ..... ● Yes ○ No

13. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

14. If any of the sampling results were higher than the benchmark values listed in the permit, was the facility inspected to identify the source? ..... ○ Yes ● No ○ NA

15. Did this result in modification of the SWPPP? ..... ○ Yes ● No

SECTION V: STORMWATER MONITORING - COMPLIANCE MONITORING

16. Is the permittee required to conduct compliance monitoring for storm water discharges subject to Point Source Category Effluent Limitation? ..... ○ Yes ● No

17. Is the permittee required to conduct compliance monitoring for storm water discharges from coal piles? (If no to questions 16 & 17, go to Section VI) ..... ○ Yes ● No

18. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

19. Were any of the sampling results from this year higher than the effluent limitation listed in the permit? ..... ○ Yes ● No

20. If any of the sampling results were higher than the effluent limitations listed in the permit, was the facility inspected to identify the source? ..... ● Yes ○ No ☒ NA

21. Did this result in modification of the SWPPP? ..... ○ Yes ● No

SECTION VI: SUMMARY

Provide a brief description of any facility changes; problems identified during comprehensive compliance evaluations, quarterly visual observations or monitoring results; and action taken to improve the quality of the stormwater discharge.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

LOUIS
Owner/Operator First Name (please print or type)

MI

03/29/2013
Date

SCARNATI
Owner/Operator Last Name (please print or type)

8812243503

Division of Water
RECEIVED
MAR 07 2014
BUREAU OF WATER PERMITS

Annual Certification Report
SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-12-01-001)

The owner/operator shall complete this Annual Certification Report form by answering the following questions, describing improvements to the facility's Stormwater Pollution Prevention Plan (SWPPP), providing copies of monitoring results on appropriate Discharge Monitoring Reports forms and signing the certification at the end of this form. This completed report is to be submitted each calendar year by February 28th of the following year to:

MSGP Permit Coordinator
NYSDEC, Bureau of Water Compliance
625 Broadway, Albany, NY, 12233-3506

TABS CONSULTING

SECTION I: FACILITY INFORMATION:

Permit I.D. No.: NYR00 B 4 2 8 **Report for Calendar Year:** 2 0 1 3

Owner Name

LKQ HUNTS POINT AUTO PARTS CORP

Facility Name

LKQ HUNTS POINT AUTO PARTS CORP

SECTION II: GENERAL INFORMATION:

1. List the number of stormwater outfalls at the facility that are from areas of industrial activity 0 0 1

2. Is the facility claiming any monitoring waiver(s)? ..... ○ Yes ● No

If yes, which waiver(s) are you claiming?

- ○ Adverse Climatic Conditions*
- ○ Alternate Certification of "Not Present" or "No Exposure"
- ○ Inactive or Unstaffed Site*
- ○ Representative Outfall*

* If you are claiming a monitoring waiver the appropriate monitoring waiver form must be included with your Discharge Monitoring Report form.

3. Is the information provided in your original Notice of Intent (NOI) submission still accurate and up to date? If not, please submit a Notice of Modification (NOM) to update the facility information ..... ● Yes ○ No

4. Has a comprehensive Site Compliance Inspection and Evaluation been conducted at the facility in the past year? ... ● Yes ○ No

5. Is the facility's Stormwater Pollution Prevention Plan (SWPPP) kept up to date and modified when necessary? ..... ● Yes ○ No

SECTION III: QUARTERLY VISUAL MONITORING:

1. Have the required quarterly visual examinations of stormwater at the facility been performed during this reporting period (See Part.IV.1.a of the MSGP)? ..... ● Yes ○ No

2. Did any of the quarterly visual examinations result in observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, or other indicators of stormwater pollution and contamination? (If yes, question 2.A, 2.B, and 2.C below must be answered) ..... ○ Yes ● No

A. Were corrective and follow up actions taken (See Part IV.B.1.a.(5) of the MSGP)? ..... ○ Yes ● No

B. Has the facility's SWPPP been updated to include modification to existing BMPs or installation of new BMPs to prevent stormwater pollution and contamination from reoccurring (See Part IV.B.1.a.(5)(c) of the MSGP)?..... ○ Yes ● No

C. Was a follow up visual inspection conducted to ensure corrective and follow up actions were successful (See Part IV.B.1.a.(5)(d) of the MSGP)? ..... ○ Yes ● No

SECTION III: ANNUAL DRY WEATHER FLOW MONITORING:

1. Was the annual dry weather flow inspection performed during this reporting period (See Part IV.B.1.b of the MSGP)? ... ● Yes ○ No

2. Were any non-stormwater dischargers or indicators of non-stormwater discharges identified? (If no, proceed to Section IV) ... ○ Yes ● No

3. Was the source of the non-stormwater discharge identified? (If no, proceed to question 5) ... ○ Yes ○ No

4. Is the source an allowable non-stormwater discharge (i.e., discharge covered by another SPDES permit or an allowable non-stormwater discharge covered in Part I.C.3 of the MSGP)? (If yes, question 4.A. below must be answered; if no, proceed to question 5) ... ○ Yes ○ No

A. Has the facility's SWPPP been updated to address the newly identified allowable non-stormwater discharge(s) (See Part IV.B.1.b.(3)(d) of the MSGP)? ... ○ Yes ○ No

5. Were corrective and follow up actions taken to eliminate the unauthorized non-stormwater discharge (See Part IV.B.1.b.(3) of the MSGP)? ... ○ Yes No

6. Were corrective and follow up actions successful in eliminating the unauthorized non-stormwater discharge? ... ○ Yes No

Note: If it is not possible to eliminate the non-authorized stormwater discharge the owner/operator must notify the Department with 14 days.

SECTION IV: STORMWATER MONITORING - BENCHMARK PARAMETERS:

1. Is the owner/operator required to monitor stormwater at the facility for benchmark parameters (See Part IV.B.1.c)? (If no, proceed to Section V) ... ● Yes ○ No

2. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ... ○ Yes ● No

3. Were any of the sampling results from this year higher than the benchmark cut-off concentrations listed in the permit? (If yes, questions 3.A and 3.B below must be answered) ... ○ Yes ● No

A. Were corrective and follow up actions taken (See Part IV.B.1.c.(6) of the MSGP)? ... ○ Yes ○ No

B. Has the facility's SWPPP been updated to include modification to existing BMPs or installation of new BMPs to prevent the benchmark exceedance from reoccurring (See Part IV.B.1.c.(6)(c) of the MSGP) ? ... ○ Yes ○ No

Note: If you had a benchmark exceedance your Corrective Action Form with follow up sample results are due by June 30 (See Part IV.B.1.c.(6)(d)(iii) of the MSGP).

SECTION V: STORMWATER MONITORING - COAL PILE RUNOFF:

1. Is the owner/operator required to conduct compliance monitoring for storm water discharges from coal piles (See Part IV.B.1.d of the MSGP? (If no, proceed to Section VI) ... ○ Yes ● No

2. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not meet or if the laboratory indicated quality insurance assurance/quality control problems) ... ○ Yes ● No

3. Were any of the sampling results from this year higher than the effluent limitations listed in Table IV-1 of the MSGP? (If yes, questions 3.A and 3.B. below must be answered) ... ○ Yes ● No

A. Were corrective and follow up actions taken (See Part IV.B.1.d.(6) of the MSGP)? ... ○ Yes ● No

B. Has the facility's SWPPP been updated to include modification to existing BMPs or installation of new BMPs to prevent the effluent limitation exceedance from reoccurring (See Part IV.B.1.d.(6) of the MSGP)? ... ○ Yes ● No

Note: If you had a effluent limitation exceedance your Corrective Action Form with follow up sample results are due by June 30 (See Part IV.B.1.e.(5)(e)(ii) of the MSGP).

2643243509

SECTION VII: STORMWATER MONITORING - COMPLIANCE MONITORING

1. Is the owner/operator required to conduct compliance monitoring for storm water discharges subject to Point Source Category Effluent Limitations (See Part IV.B.1.e of the MSGP)? (If no, proceed to Section VII) ..... ○ Yes ☑ No

2. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not meet of if the laboratory indicated quality insurance assurance/quality control problems) ..... ○ Yes ☑ No

3. Were any of the sampling results from this year higher than the effluent limitations listed in the permit? (If yes, questions 3.A and 3.B. below must be answered) ..... ○ Yes ☑ No

A. Were corrective and follow up actions taken (See Part IV.B.1.e.(5) of the MSGP)? ..... ○ Yes ☑ No

B. Has the facility's SWPPP been updated to include modification to existing BMPs or installation of new BMPs to prevent the effluent limitation exceeding from reoccurring (See Part IV.B.1.e.(5)(c) of the MSGP? ..... ○ Yes ☑ No

Note: If you had an effluent limitation exceedance your Corrective Action Form with follow up sample results are due by July 31 (See Part IV.B.1.e.(5)(e)(ii) of the MSGP).

SECTION VIII: STORMWATER MONITORING - DISCHARGES TO IMPAIRED WATERBODIES:

1. Is the owner/operator required to conduct compliance monitoring for discharges to impaired waterbodies (See Part IV.B.1.g of the MSGP)? (If no, proceed to Section VIII)..... ○ Yes ☑ No

2. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not meet of if the laboratory indicated quality insurance assurance/quality control problems) ..... ○ Yes ○ No

3. Were any of the sampling results from this year higher than the benchmark cut-off concentrations or effluent limitations listed in the permit? (If yes, questions 3.A and 3.B below must be answered). ..... ○ Yes ○ No

A. Were corrective and follow up actions taken (See Part IV.B.1.g.(6) of the MSGP)? ..... ○ Yes ○ No

B. Has the facility's SWPPP been updated to include modification to existing BMPs or installation of new BMPs to prevent the benchmark cutoff concentrations or effluent limitations exceedance from reoccurring (See Part IV.B.1.g.(6)(c) of the MSGP)? ..... ○ Yes ○ No

C. Did the follow-up quarterly sample show the corrective and follow up actions to be successful? ..... ○ Yes ○ No

SECTION IX: SUMMARY:

Provide a brief description of any facility changes; problems identified during comprehensive compliance evaluations, quarterly visual observations or monitoring results; and actions taken to improve the quality of the stormwater discharge.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

LOUIS
Owner/Operator First Name (please print or type)

MI

SCARNATI
Owner/Operator Last Name (please print or type)

02/26/2014
Date

Owner/Operator Signature

SUBMITED BY
TABS CONSULTING GROUP
(718) 482-6484
8812243503

Annual Certification Report
SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-12-01-001)

The owner/operator shall complete this Annual Certification Report form by answering the following questions, describing improvements to the facility's Stormwater Pollution Prevention Plan (SWPPP), providing copies of monitoring results on appropriate Discharge Monitoring Reports forms and signing the certification at the end of this form. This completed report is to be submitted each calendar year by February 28th of the following year to:

MSGP Permit Coordinator
NYSDEC, Bureau of Water Compliance
625 Broadway, Albany, NY, 12233-3506

RECEIVED
MAR - 7 2016
DIVISION OF WATER

SECTION I: FACILITY INFORMATION:

Permit I.D. No.: NYR00 B 4 2 8 **Report for Calendar Year:** 2 0 1 5

Owner Name
LKQ HUNTS POINT AUTO PARTS CORP

Facility Name
LKQ HUNTS POINT AUTO PARTS CORP

SECTION II: GENERAL INFORMATION:

1. List the number of stormwater outfalls at the facility that are from areas of industrial activity 0 0 1

2. Is the facility claiming any monitoring waiver(s)? ..... ○ Yes ✓ No

If yes, which waiver(s) are you claiming?

- ○ Adverse Climatic Conditions*
- ○ Alternate Certification of "Not Present" or "No Exposure"
- ○ Inactive or Unstaffed Site*
- ○ Representative Outfall*

* If you are claiming a monitoring waiver the appropriate monitoring waiver form must be included with your Discharge Monitoring Report form.

3. Is the information provided in your original Notice of Intent (NOI) submission still accurate and up to date? If not, please submit a Notice of Modification (NOM) to update the facility information ..... ✓ Yes ○ No

4. Has a comprehensive Site Compliance Inspection and Evaluation been conducted at the facility in the past year? ... ● Yes ○ No

5. Is the facility's Stormwater Pollution Prevention Plan (SWPPP) kept up to date and modified when necessary? ..... ● Yes ○ No

SECTION III: QUARTERLY VISUAL MONITORING:

1. Have the required quarterly visual examinations of stormwater at the facility been performed during this reporting period (See Part.IV.1.a of the MSGP)? ..... ● Yes ○ No

2. Did any of the quarterly visual examinations result in observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, or other indicators of stormwater pollution and contamination? (If yes, question 2.A, 2.B, and 2.C below must be answered) ..... ○ Yes ● No

A. Were corrective and follow up actions taken (See Part IV.B.1.a.(5) of the MSGP)? ..... ○ Yes ○ No

B. Has the facility's SWPPP been updated to include modification to existing BMPs or installation of new BMPs to prevent stormwater pollution and contamination from reoccurring (See Part IV.B.1.a.(5)(c) of the MSGP)?..... ○ Yes ○ No

C. Was a follow up visual inspection conducted to ensure corrective and follow up actions were successful (See Part IV.B.1.a.(5)(d) of the MSGP)? ..... ○ Yes ○ No

SECTION IV: ANNUAL DRY WEATHER FLOW MONITORING:

1. Was the annual dry weather flow inspection performed during this reporting period (See Part IV.B.1.b of the MSGP)? ..... ☑ Yes ○ No

2. Were any non-stormwater dischargers or indicators of non-stormwater discharges identified? (If no, proceed to Section V)..... ○ Yes ● No

3. Was the source of the non-stormwater discharge identified? (If no, proceed to question 5) ..... ○ Yes ○ No

4. Is the source an allowable non-stormwater discharge (i.e., discharge covered by another SPDES permit or an allowable non-stormwater discharge covered in Part I.C.3 of the MSGP)? (If yes, question 4.A. below must be answered; if no, proceed to question 5)..... ○ Yes ○ No

A. Has the facility's SWPPP been updated to address the newly identified allowable non-stormwater discharge(s) (See Part IV.B.1.b.(3)(d) of the MSGP)? ..... ○ Yes ○ No

5. Were corrective and follow up actions taken to eliminate the unauthorized non-stormwater discharge (See Part IV.B.1.b.(3) of the MSGP)? ..... ○ Yes ○ No

6. Were corrective and follow up actions successful in eliminating the unauthorized non-stormwater discharge? ..... ○ Yes ○ No

Note: If it is not possible to eliminate the non-authorized stormwater discharge the owner/operator must notify the Department with 14 days.

SECTION V: STORMWATER MONITORING - BENCHMARK PARAMETERS:

1. Is the owner/operator required to monitor stormwater at the facility for benchmark parameters (See Part IV.B.1.c)? (If no, proceed to Section VI)..... ● Yes ○ No

2. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not met or if the laboratory indicated quality assurance/quality control problems) ..... ○ Yes ● No

3. Were any of the sampling results from this year higher than the benchmark cut-off concentrations listed in the permit? (If yes, questions 3.A and 3.B below must be answered)..... ○ Yes ● No

A. Were corrective and follow up actions taken (See Part IV.B.1.c.(6) of the MSGP)? ..... ○ Yes ○ No

B. Has the facility's SWPPP been updated to include modification to existing BMPs or installation of new BMPs to prevent the benchmark exceedance from reoccurring (See Part IV.B.1.c.(6)(c) of the MSGP) ? ..... ○ Yes ○ No

Note: If you had a benchmark exceedance your Corrective Action Form with follow up sample results are due by July 31 (See Part IV.B.1.c.(6)(d)(iii) of the MSGP).

SECTION VI: STORMWATER MONITORING - COAL PILE RUNOFF:

1. Is the owner/operator required to conduct compliance monitoring for storm water discharges from coal piles (See Part IV.B.1.d of the MSGP? (If no, proceed to Section VII)..... ○ Yes ● No

2. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not meet or if the laboratory indicated quality insurance assurance/quality control problems) ..... ○ Yes ○ No

3. Were any of the sampling results from this year higher than the effluent limitations listed in Table IV-1 of the MSGP? (If yes, questions 3.A and 3.B. below must be answered)..... ○ Yes ○ No

A. Were corrective and follow up actions taken (See Part IV.B.1.d.(6) of the MSGP)? ..... ○ Yes ○ No

B. Has the facility's SWPPP been updated to include modification to existing BMPs or installation of new BMPs to prevent the effluent limitation exceedance from reoccurring (See Part IV.B.1.d.(6) of the MSGP)? ..... ○ Yes ○ No

Note: If you had a effluent limitation exceedance your Corrective Action Form with follow up sample results are due by July 31 (See Part IV.B.1.e.(5)(e)(ii) of the MSGP).

2643243509

SECTION VII: STORMWATER MONITORING - COMPLIANCE MONITORING

1. Is the owner/operator required to conduct compliance monitoring for storm water discharges subject to Point Source Category Effluent Limitations (See Part IV.B.1.e of the MSGP)? (If no, proceed to Section VIII) ..... ○ Yes ◉ No

2. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not meet of if the laboratory indicated quality insurance assurance/quality control problems) ..... ○ Yes ○ No

3. Were any of the sampling results from this year higher than the effluent limitations listed in the permit? (If yes, questions 3.A and 3.B. below must be answered) ..... ○ Yes ○ No

A. Were corrective and follow up actions taken (See Part IV.B.1.e.(5) of the MSGP)? ..... ○ Yes ○ No

B. Has the facility's SWPPP been updated to include modification to existing BMPs or installation of new BMPs to prevent the effluent limitation exceeding from reoccurring (See Part IV.B.1.e.(5)(c) of the MSGP? ..... ○ Yes ○ No

Note: If you had an effluent limitation exceedance your Corrective Action Form with follow up sample results are due by July 31 (See Part IV.B.1.e.(5)(e)(ii) of the MSGP).

SECTION VIII: STORMWATER MONITORING - DISCHARGES TO IMPAIRED WATERBODIES:

1. Is the owner/operator required to conduct compliance monitoring for discharges to impaired waterbodies (See Part IV.B.1.g of the MSGP)? (If no, proceed to Section IX)..... ○ Yes ◉ No

2. Were there any monitoring problems? (Answer "Yes" if storm event criteria was not meet of if the laboratory indicated quality insurance assurance/quality control problems) ..... ○ Yes ○ No

3. Were any of the sampling results from this year higher than the benchmark cut-off concentrations or effluent limitations listed in the permit? (If yes, questions 3.A and 3.B below must be answered). ..... ○ Yes ○ No

A. Were corrective and follow up actions taken (See Part IV.B.1.g.(6) of the MSGP)? ..... ○ Yes ○ No

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C. Did the follow-up quarterly sample show the corrective and follow up actions to be successful? ..... ○ Yes ○ No

SECTION IX: SUMMARY:

Provide a brief description of any facility changes: problems identified during comprehensive compliance evaluations, quarterly visual observations or monitoring results: and actions taken to improve the quality of the stormwater discharge.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

LOUIS
Owner/Operator First Name (please print or type)

MI

02/23/2015
Date

SCARNATI
Owner/Operator Last Name (please print or type)

Louis Scarnati PA
Owner/Operator Signature

881224503

RECEIVED
MAR 03 2017
BUREAU OF WATER PERMITS

SUBMITED BY
TASS CONSULTING GROUP
(718) 492-6464

Annual Certification Report
SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (GP-12-01-001)

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L K Q H U N T S P O I N T A U T O P A R T S C O R P

Facility Name
L K Q H U N T S P O I N T A U T O P A R T S C O R P

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LOUIS — Owner/Operator First Name (please print or type) — MI

02/07/2017 — Date

SCARNATI — Owner/Operator Last Name (please print or type)

Owner/Operator Signature

Fax

LKQ

LKQ Hunts Point Auto Parts Corp.
1480 Sheridan Expressway
Bronx, NY 10459

TO	**Brian Falvey**	From:	**Kenny Hooks**
Fax:	**(718)-482-4098**	Fax:	**718-589-5223**
Phone:	**(718)-842-7129**	Phone:	**718-860-5725**
		Email:	**kohooks@lkqcorp.com**
Date:	**11/10/2011**		
Subject:	**Tank Monthly Inspections**		

Comments:

Dear Brian:
As per our conversation attached you will find the reports.

Thanks in advance

If you should have any questions, please feel free to contact me at above number.

Sincerely,
Kenny Hooks
Safety Supervisor

MONTHLY TANK INSPECTION FORM

STORAGE TANKS												
TANK	DESCRIPTION /LOCATION	LEAKS	GALLON CAPACITY	STAINS	PRODUCT STORED	CRACKS	CORROSION & THINNING	SEPARATION OR SWELLING OF INSULATION	MAINTENANCE & OPERATING PRACTICES	SETTLEMENT OF STRUCTURES	LEAK DETECTION SYSTEM	CATHODIC PROTECTION
Tank #1	Belco	None	500	None	Diesel	None	None	None	✓	None	✓	✓
Tank #2	1480 Sheridan	None	275	None	Gas	None	None	None	✓	None	✓	✓
TANK #3	1480 Sheridan	None	275	None	Gas	None	None	None	✓	None	✓	✓
TANK #4	1480 Sheridan	None	1000	None	Waste Oil	None	None	None	✓	None	✓	✓
TANK #5	1480 Sheridan	None	1000	None	Waste Ant. Freeze	None	None	None	✓	None	✓	✓
TANK #6	Belco	None	275	None	Waste Oil	None	None	None	✓	None	✓	✓

NONE REQUIRED	10-14-11	[INSPECTOR PLEASE INITIAL] Kenny Hooks		Safety Supervisor	
FACILITY REGISTRATION	DATE OF INSPECTION	INSPECTOR'S ACKNOWLEDGEMENT INSPECTION IS CONSISTENT WITH NYSDEC SECTION 613.6	INSPECTOR'S SIGNATURE	INSPECTOR'S TITLE & ADDRESS	CHECK HERE IF ADDITIONAL COMMENTS ARE ATTACHED

REPORTS FOR EACH MONTHLY INSPECTION & TEN-YEAR INSPECTION MUST BE MAINTAINED AND MADE AVAILABLE TO THE NYSDEC UPON REQUEST FOR A PERIOD OF AT LEAST TEN (10) YEARS.

Nov 10 2011 10:37AM LKQ360 HPRP A/P 17185895223 page 2

MONTHLY TANK INSPECTION FORM

STORAGE TANKS												
TANK	DESCRIPTION / LOCATION	LEAKS	GALLON CAPACITY	STAINS	PRODUCT STORED	CRACKS	CORROSION & THINNING	SEPARATION OR SWELLING OF INSULATION	MAINTENANCE & OPERATING PRACTICES	SETTLEMENT OF STRUCTURES	LEAK DETECTION SYSTEM	CATHODIC PROTECTION
Tank #1	Belco	NONE	500	NONE	Diesel	NONE	NONE	NONE	✓	NONE	✓	✓
Tank #2	1480 Shepherdtown	NONE	275	NONE	Gas	NONE	NONE	NONE	✓	NONE	✓	✓
TANK #3	1480 Shepherdtown	NONE	275	NONE	Gas	NONE	NONE	NONE	✓	NONE	✓	✓
TANK #4	1480 Shepherdtown	NONE	1000	NONE	Waste Oil	NONE	NONE	NONE	✓	NONE	✓	✓
TANK #5	1480 Shepherdtown	NONE	1000	NONE	Waste Anti Freeze	NONE	NONE	NONE	✓	NONE	✓	✓
TANK #6	Belco	NONE	275	NONE	Waste Oil	NONE	NONE	NONE	✓	NONE	✓	✓

NONE REQUIRED	9-15-11	(INSPECTOR PLEASE INITIAL) Kenny Hicks	Kenny Hicks	Safety Supervisor	
FACILITY REGISTRATION	DATE OF INSPECTION	INSPECTOR'S ACKNOWLEDGEMENT INSPECTION IS CONSISTENT WITH NYSDEC SECTION 613.6	INSPECTOR'S SIGNATURE	INSPECTOR'S TITLE & ADDRESS	CHECK HERE IF ADDITIONAL COMMENTS ARE ATTACHED

REPORTS FOR EACH MONTHLY INSPECTION & TEN-YEAR INSPECTION MUST BE MAINTAINED AND MADE AVAILABLE TO THE NYSDEC UPON REQUEST FOR A PERIOD OF AT LEAST TEN (10) YEARS.

Nov 10 2011 10:37AM LKQ360 HPAP A/P 17185895223 Page 3

MONTHLY TANK INSPECTION FORM

STORAGE TANKS												
TANK	DESCRIPTION / LOCATION	LEAKS	GALLON CAPACITY	STAINS	PRODUCT STORED	CRACKS	CORROSION & THINNING	SEPARATION OR SWELLING OF INSULATION	MAINTENANCE & OPERATING PRACTICES	SETTLEMENT OF STRUCTURES	LEAK DETECTION SYSTEM	CATHODIC PROTECTION
Tank #1	Belco	NONE	500	NONE	DIESEL	NONE	NONE	NONE	✓	NONE	✓	✓
Tank #2	Belco	NONE	275	NONE	WASTE OIL	NONE	NONE	NONE	✓	NONE	✓	✓
TANK #3	1480 STEEDMAN	NONE	275	NONE	GAS	NONE	NONE	NONE	✓	NONE	✓	✓
TANK #4	1480 STEEDMAN	NONE	275	NONE	GAS	NONE	NONE	NONE	✓	NONE	✓	✓
TANK #5	1480 STEEDMAN	NONE	1000	NONE	WASTE OIL	NONE	NONE	NONE	✓	NONE	✓	✓
TANK #6	1480 STEEDMAN	NONE	1000	NONE	WHITE ANTIFREEZE	NONE	NONE	NONE	✓	NONE	✓	✓

NONE REQUIRED	8-18-11	[INSPECTOR PLEASE INITIAL] Kenny Hoke		Safety Supervisor	
FACILITY REGISTRATION	DATE OF INSPECTION	INSPECTOR'S ACKNOWLEDGEMENT INSPECTION IS CONSISTENT WITH NYSDEC SECTION 613.6	INSPECTOR'S SIGNATURE	INSPECTOR'S TITLE & ADDRESS	CHECK HERE IF ADDITIONAL COMMENTS ARE ATTACHED

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Appendix D

Appendix D

Environmental Data Resources, Inc. Database Search Report

1428, 1458 ,1460, 1480 Sheridan Expressway
1428, 1458 ,1460, 1480 Sheridan Expressway
Bronx, NY 10459

Inquiry Number: 05468323.2r
October 30, 2018

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

COORDINATES

Latitude (North):	40.8316280 - 40° 49' 53.86''
Longitude (West):	73.8841680 - 73° 53' 3.00''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	594085.0
UTM Y (Meters):	4520454.0
Elevation:	8 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5940599 CENTRAL PARK, NY
Version Date:	2013
East Map:	5940605 FLUSHING, NY
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150522
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LKQ HUNTS POINT AUTO	1460 SHERIDAN EXPRES	NY AST		TP
A2	LKQ HUNTS POINT AUTO	1480 SHERIDAN EXP	NY RGA LF		TP
A3	HUNTS POINT AUTO WRE	1480 SHERIDAN EXPWY	RCRA-CESQG, NY LTANKS, NY MANIFEST		TP
A4	LKQ HUNTS POINT AUTO	1480 SHERIDAN EXPY	NY SWF/LF, NY CBS, NY SPDES		TP
A5	MARINE BOILER & WELD	1428 SHERIDAN EXPRES	NY UST		TP
A6	LKQ HUNTS POINT AUTO	1480 SHERIDAN EXPRES	NY CBS AST		TP
A7	LKQ HUNTS POINT AUTO	1480 SHERIDAN EXPRES	NY AST		TP
A8	LKQ HUNTS POINT AUTO	1480 SHERIDAN EXPRES	US AIRS, FINDS, ECHO		TP
B9	EXPRESSWAY SERVICE S	1476 SHERIDAN EXPRES	EDR Hist Auto	Higher	85, 0.016, SSW
B10	SHERIDAN AUTO REPAIR	1476 SHERIDAN EXPRES	NY AST	Higher	85, 0.016, SSW
11	BRONX RIVER	EAST 172ND ST/WESTCH	NY Spills	Higher	119, 0.023, South
12	EXPRESSWAY SERVICE S	1355 WEST FARMS RD	EDR Hist Auto	Higher	228, 0.043, SW
C13	J & L AUTO SEV	1471 W FARMS RD	NY UST	Higher	248, 0.047, West
C14	J & A SERVICE - CLOS	1471 W FARMS RD	RCRA-CESQG, NY Spills, NY MANIFEST	Higher	248, 0.047, West
C15	J & L AUTO SERVICE	1471 W FARMS RD	EDR Hist Auto	Higher	248, 0.047, West
C16	ABANDONED SERVICE ST	1471 WEST FARM RD	NY Spills	Higher	280, 0.053, West
C17	NYC DEP	1508 BOONE AVE	RCRA NonGen / NLR, NY MANIFEST	Higher	300, 0.057, NW
D18	UNDERGROUND TRANSFOR	1565 WEST FARMS RD	NY Spills	Higher	327, 0.062, North
E19	I/A/O BOONEY AVE & 1	BOONEY AVE & 172ND S	NY Spills	Higher	367, 0.070, NW
F20	NONE	1040 - 1052 EDGEWATE	NY AST	Higher	370, 0.070, SSW
D21	1544 BOONE AVENUE "C	1544 BOONE AVENUE "C	NY VCP	Higher	373, 0.071, NNW
D22	LOT 9,TAXBLOCK 3014	1544 BOONE AVENUE	NY RES DECL, NY Spills	Higher	373, 0.071, NNW
G23	CON EDISON	1243 BRONX RIVER AVE	RCRA NonGen / NLR, NY MANIFEST	Higher	377, 0.071, SSE
G24	APEX SALES, TOWING &	1235 BRONX RIVER AVE	NY AST	Higher	385, 0.073, SSE
G25	APEX SALES TOWING &	1235 BRONX RIVER AVE	NY CBS, NY Spills, NY SPDES	Higher	385, 0.073, SSE
H26	BRONX RIVER	WESTCHESTER AVE	NY Spills	Lower	386, 0.073, South
E27	CON EDISON	1521 BOONE AVE	NY MANIFEST	Higher	413, 0.078, NW
H28	NYCDOT	WESTCHESTER AVE OVER	RCRA NonGen / NLR	Lower	418, 0.079, South
G29	215315; 1243 BRONX R	1243 BRONX RIVER AVE	NY Spills	Higher	446, 0.084, SSE
F30	BRONX RIVER	WESTCHESTER AVE/EDGE	NY Spills	Higher	450, 0.085, SSW
F31	VAULT 1744	EDGEWATER RD AND WES	NY Spills	Higher	451, 0.085, SSW
F32	ROADWAY	WESTCHESTER AVE AND	NY Spills	Higher	451, 0.085, SSW
F33	CON EDISON - SERVICE	WESTCHESTER AVE & ED	NY MANIFEST	Higher	451, 0.085, SSW
I34	CON EDISON	1314 WEST FARMS ROAD	NY MANIFEST	Higher	453, 0.086, SW
I35	NYCHA - WEST FARMS R	1323 W FARMS RD	RCRA-CESQG, NJ MANIFEST, NY MANIFEST	Higher	454, 0.086, SW
E36	LOT 44,TAXBLOCK 3009	1015 EAST 172 STREET	NY E DESIGNATION	Higher	456, 0.086, NW
F37	WESTCHESTER OFF RAMP	SHERIDAN EXPRESSWAY	NY Spills	Higher	458, 0.087, SSW
F38	SHERATON EXPRESSWAY	SERVICE RD&WESTCHEST	NY Spills	Higher	458, 0.087, SSW
J39	PRIVATE RESIDENCE	1277 BRONX RIVER AVE	NY Spills	Higher	483, 0.091, ESE

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BRONX, NY 10459

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
J40	CONSOLIDATED EDISON	1267 BRONX RIVER AVE	NY MANIFEST	Higher	484, 0.092, SE
K41	SHERIDAN GARAGE CORP	1040 FREEMAN STREET	NY AST	Higher	492, 0.093, SSW
H42	LETTERA SIGN & ELECT	1209 BRONX RIVER AVE	RCRA-SQG, NY MANIFEST	Higher	494, 0.094, SSE
D43	LOT 38,TAXBLOCK 3009	1529 BOONE AVENUE	NY E DESIGNATION	Higher	509, 0.096, NNW
I44	WEST FARMS ESTATES	1310 WEST FARMS ROAD	NY UST	Higher	510, 0.097, SW
L45	PUBLIC SCHOOL 66 - B	1001 JENNINGS STREET	NY AST	Higher	518, 0.098, West
L46	NYCSCA - PUBLIC SCHO	1001 JENNINGS ST	RCRA-SQG, NY MANIFEST	Higher	518, 0.098, West
K47	AMBUTRANS HOLDING CO	1028 FREEMAN STREET	NY UST, NY Spills	Higher	524, 0.099, SW
I48	1013 FREEMAN STREET	1013 FREEMAN STREET	NY UST	Higher	531, 0.101, SW
E49	CON EDISON	1524 LONGFELLOW AVE	NJ MANIFEST	Higher	548, 0.104, NW
E50	CON EDISON	1524 LONGFELLOW AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	548, 0.104, NW
E51	CON EDISON	1524 LONGFELLOW AVE	NY MANIFEST	Higher	548, 0.104, NW
K52	FBHC	1 WEST FARMS ROAD	NY UST, NY Spills	Higher	557, 0.105, SSW
M53	STRIP MALL	1299-1309 BRONX RIVE	NY Spills	Higher	561, 0.106, East
N54	LOT 37,TAXBLOCK 3009	1549 BOONE AVENUE	NY E DESIGNATION	Higher	562, 0.106, NNW
E55	MRC 754 E. 161ST ST	1504 LONGFELLOW AVE.	NY AST	Higher	564, 0.107, WNW
O56	MRC/754 E 161ST HDFC	1500 LONGFELLOW AVE.	NY AST	Higher	566, 0.107, WNW
L57	MRC/754 E. 161ST HDF	1496 LONGFELLOW AVE.	NY AST	Higher	568, 0.108, WNW
G58	THOMAS RES	1252 BRONX RIVER AVE	NY Spills	Higher	571, 0.108, SE
H59	BRONX RIVER AV/WESTC	BX RIVER AV/WESTCHES	NY Spills	Higher	572, 0.108, SSE
E60	CON EDISON	1526 LONGFELLOW AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	573, 0.109, NW
E61	CON EDISON	1526 LONGFELLOW AVE	NY MANIFEST	Higher	573, 0.109, NW
E62	CON EDISON	1526 LONGFELLOW AVE	NJ MANIFEST	Higher	573, 0.109, NW
H63	VERIZON	W CHESTER & BRONX R	RCRA NonGen / NLR	Higher	573, 0.109, SSE
H64	NYNEX	BRONX RIV RD & WESTC	NY MANIFEST	Higher	573, 0.109, SSE
H65	WESTCHESTER @ CLOSE	WESTCHESTER AV @ CLO	NY Spills	Higher	573, 0.109, SSE
H66	CON EDISON MANHOLE 2	BRONX RIVER AVE & CL	RCRA NonGen / NLR, NY MANIFEST	Higher	573, 0.109, SSE
P67	CON EDISON - MANHOLE	1661 W FARMS RD	NY Spills, NY MANIFEST	Higher	594, 0.112, North
P68	DSNY BX DISTRICT 3A	1661 WEST FARMS ROAD	NY AST	Higher	594, 0.112, North
P69	DSNY BX DISTRICT 3A	1661 WEST FARMS ROAD	NY UST	Higher	594, 0.112, North
P70	NYC DEPT OF SANITATI	1661 W FARMS RD BX-W	RCRA NonGen / NLR, FINDS, ECHO	Higher	594, 0.112, North
P71	BASEMENT	1661 WEST FARMS ROAD	NY LTANKS	Higher	594, 0.112, North
N72	1560 BOONE AVENUE	1560 BOONE AVENUE	NY VCP	Higher	599, 0.113, North
N73	FERRIS STAHL MEYER P	1560 BOONE AVENUE	NY AST	Higher	599, 0.113, North
N74	LOT 15,TAXBLOCK 3014	1560 BOONE AVENUE	NY LTANKS, NY RES DECL	Higher	599, 0.113, North
N75	1563 BOONE AVE	1563 BOONE AVENUE	NY AST	Higher	607, 0.115, NNW
G76	SERVICE BOX 2252	1230 COLGATE AV	NY Spills	Higher	607, 0.115, SE
N77	CON EDISION	1559 BOONE AV	NY MANIFEST	Higher	608, 0.115, NNW
K78	G M T TILE CORP	1077 HOME ST	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Higher	635, 0.120, SSW

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BRONX, NY 10459

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Q79	CON EDISON MANHOLE 2	WESTCHESTER AVE & WH	NY MANIFEST	Higher	638, 0.121, SSW
Q80	CON EDISON	WESTCHESTER AVE & WH	NY MANIFEST	Higher	638, 0.121, SSW
Q81	CON EDISON MANHOLE 2	WESTCHESTER AVE & WH	RCRA NonGen / NLR	Higher	638, 0.121, SSW
R82	WELFARE OFFICE BLDG	1209 COLGATE AVE	NY Spills	Higher	639, 0.121, SSE
R83	BELOW DISPENSORS	1441 WESTCHESTER AVE	NY Spills	Higher	640, 0.121, SSE
R84	ESTEVEN SERVICE STAT	1441 WESTCHESTER AVE	EDR Hist Auto	Higher	640, 0.121, SSE
R85	GLOBAL MONTELLO GROU	1441 WESTCHESTER AVE	NY UST	Higher	640, 0.121, SSE
R86	GETTY #329	1441 WESTCHESTER AVE	NY LTANKS, NY Spills	Higher	640, 0.121, SSE
R87	GETTY GAS STATION	1441 WESTCHESTER AVE	NY Spills	Higher	640, 0.121, SSE
R88	GLOBAL MONTELLO GROU	1441 WESTCHESTER AVE	NY AST	Higher	640, 0.121, SSE
R89	ALLIANCE ENERGY LLC	1441 WESTCHESTER AVE	NY Spills	Higher	640, 0.121, SSE
I90	MANHOLE 495	WEST FARM RD/ FREEDM	NY Spills	Higher	641, 0.121, SW
S91	P.S. 811 (OLD I84) -	1434 LONGFELLOW AVEN	NY AST	Higher	648, 0.123, WSW
S92	NYC BD OF ED - PUBLI	1434 LONGFELLOW AVE	RCRA-SQG, NY Spills, FINDS, ECHO, NY MANIFEST	Higher	648, 0.123, WSW
T93	MACHADO SERVICE STAT	1189 BRONX RIVER AV	EDR Hist Auto	Higher	651, 0.123, South
M94	DRUM RUN - PARKING L	1321 BRONX RIVER AVE	NY Spills	Higher	651, 0.123, East
T95	GETTY SERVICE STATIO	1185 BRONX RIVER AVE	RCRA NonGen / NLR, US AIRS, FINDS, ECHO, NY...	Higher	655, 0.124, South
T96	BUSINESS SERVICE STA	1185 BRONX RIVER AVE	NY Spills	Higher	655, 0.124, South
T97	MATEO MANUEL	1185 BRONX RIVER AVE	EDR Hist Auto	Higher	655, 0.124, South
T98	GETTY # 268	1185 BRONXRIVER AVE	NY Spills	Higher	655, 0.124, South
T99	GETTY SERVICE STATIO	1185 BRONX RIVER AVE	NY LTANKS, NY Spills	Higher	655, 0.124, South
T100	GLOBAL MONTELLO GROU	1185 BRONX RIVER AVE	NY UST, NY AST	Higher	655, 0.124, South
U101	CON EDISON	1000 FREEMAN ST	NY MANIFEST	Higher	658, 0.125, SW
U102	CON EDISON	1000 FREEMAN ST	NJ MANIFEST	Higher	658, 0.125, SW
U103	CON EDISON	1000 FREEMAN ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	658, 0.125, SW
I104	CON EDISON	1004 FREELAND AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	682, 0.129, SW
105	CON EDISON - EAST 17	WEST FARMS RD. AND B	EDR MGP	Higher	691, 0.131, NE
K106	CON EDISON	1059 HOME ST	NY MANIFEST	Higher	695, 0.132, SW
K107	ABALON PRECISION MFG	1040 HOME STREET	NY AST	Higher	697, 0.132, SW
O108	CON EDISON	1499 LONGFELLOW	RCRA NonGen / NLR, FINDS, ECHO	Higher	702, 0.133, WNW
O109	CON EDISON	1499 LONGFELLOW AVE	NJ MANIFEST	Higher	702, 0.133, WNW
O110	CON EDISON	1499 LONGFELLOW AVE	NY MANIFEST	Higher	702, 0.133, WNW
O111	CON EDISON	1499 LONGFELLOW	RCRA NonGen / NLR	Higher	702, 0.133, WNW
O112	CON EDISON	1499 LONGFELLOW	NJ MANIFEST	Higher	702, 0.133, WNW
O113	CON EDISON	1499 LONGFELLOW	NY MANIFEST	Higher	702, 0.133, WNW
Q114	TABS LA MAQUINA AUTO	1301 WESTCHESTER AVE	NY AST	Higher	707, 0.134, SSW
Q115	VERIZON	WESTCHESTER AVE & HO	RCRA-LQG, FINDS, ECHO	Higher	716, 0.136, SSW
Q116	VERIZON	WESTCHESTER AVE & HO	NY MANIFEST	Higher	716, 0.136, SSW
P117	CON EDISON	E 173RD ST & WEST FA	NY MANIFEST	Higher	723, 0.137, NNE

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1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
P118	CON EDISON	W FARMS RD & E 173RD	NY MANIFEST	Higher	723, 0.137, NNE
P119	CON EDISON TRANSFORM	E 173RD ST & WEST FA	RCRA NonGen / NLR	Higher	723, 0.137, NNE
Q120	1084-1086 HOME ST.	1084 HOME STREET	NY AST	Higher	767, 0.145, SSW
Q121	1084 - 1086_HOME STR	1084-1086 HOME STREE	NY AST	Higher	767, 0.145, SSW
V122	ABALON PRECISION MFG	1074 HOME ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	770, 0.146, SSW
T123	B S AUTO PARTS	1170 BRONX RIVER AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	782, 0.148, SSE
R124	VICPAT REALTY CORP	1452 WESTCHESTER AVE	NY UST	Higher	784, 0.148, SSE
W125	ALEX AUTO REPAIR SHO	1006 E 173RD ST	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Higher	787, 0.149, North
X126	CON EDISON	1252 EVERGREEN AVE	NY MANIFEST	Higher	795, 0.151, ESE
X127	CON EDISON SERVICE B	1252 EVERGREEN AVE	RCRA NonGen / NLR	Higher	795, 0.151, ESE
W128	CON EDISON	173RD ST & BOONE AVE	NY MANIFEST	Higher	801, 0.152, North
W129	CON EDISON	173RD ST & BOONE AVE	NJ MANIFEST	Higher	801, 0.152, North
W130	CON EDISON	173RD ST & BOONE AVE	RCRA NonGen / NLR	Higher	801, 0.152, North
S131	MANHOLE 17607	1431 LONGFELLOW AVE	NY Spills, NY MANIFEST	Higher	808, 0.153, WSW
T132	1150 BRONX RIVER AVE	1150 BRONX RIVER AVE	NY UST	Higher	812, 0.154, South
X133	CON EDISON	1236 EVERGREEN AV	NY MANIFEST	Higher	824, 0.156, SE
X134	CON EDISON	1236 EVERGREEN AV	NY MANIFEST	Higher	824, 0.156, SE
Y135	1468 BRYANT REALTY L	1468 BRYANT AVENUE	NY AST	Higher	827, 0.157, West
Z136	1528 BRYANT AVENUE	1528 BRYANT AVE	NY AST	Higher	836, 0.158, NW
V137	ABALON PRECISION MFG	1174 LONGFELLOW AVE	NY LTANKS	Higher	847, 0.160, SW
Y138	CON EDISON	1456 BRYANT AVE	NY MANIFEST	Higher	857, 0.162, West
AA139	1226 EVERGREEN LLC	1226 EVERGREEN AVENU	NY AST	Higher	867, 0.164, SE
W140	CON EDISON	1661 BOONE AVENUE F/	NY MANIFEST	Higher	891, 0.169, North
W141	JOSE R. LOPEZ DBA/ J	1661 BOONE AVENUE	NY AST	Higher	891, 0.169, North
V142	APARTMENT BUILDING	1275 WESTCHESTER AVE	NY LTANKS	Higher	893, 0.169, SSW
V143	NEW DAY I	1275 WESTCHESTER AVE	NY AST	Higher	893, 0.169, SSW
W144	ADHESIVE PRODUCTS	1660-1668 BOONE AVEN	NY UST, NY CBS UST, NY CBS	Higher	904, 0.171, North
W145	ADHESIVE PRODUCTS CO	1660-1684 BOONE AVE	NY Spills, RCRA NonGen / NLR, NY MANIFEST	Higher	904, 0.171, North
AB146	CON EDISON	E 172 ST & WHEELER A	NY MANIFEST	Higher	904, 0.171, ESE
AB147	NYNEX	172ND ST & WHEELER A	NY MANIFEST	Higher	904, 0.171, ESE
V148	SPILL NUMBER 0302371	1150 LONGFELLOW AVE	NY LTANKS	Higher	908, 0.172, SW
AB149	GARCIA RESIDENCE	1316 WHEELER AVENUE	NY LTANKS	Higher	912, 0.173, East
150	CON EDISON	1432 BRYANT AVE	NY MANIFEST	Higher	922, 0.175, WSW
AC151	COLGATE DRY CLEANERS	1170 COLGATE AVE	FINDS, NY DRYCLEANERS	Higher	931, 0.176, SSE
W152	CON EDISION	1674 BOONE AV	NY MANIFEST	Higher	933, 0.177, North
153	CON EDISON	1715 WEST FARM RD	NY MANIFEST	Higher	933, 0.177, NNE
AD154	BLUEBIRD REALTY COMP	1182 WEST FARMS ROAD	NY AST	Higher	935, 0.177, SW
AE155	CON EDISON	1278 WESTCHESTER AVE	NY MANIFEST	Higher	937, 0.177, SSW
AA156	CON EDISON	1214 EVERGREEN AVE	NY MANIFEST	Higher	943, 0.179, SE

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AA157	CON EDISON SERVICE B	1214 EVERGREEN AVE	RCRA NonGen / NLR, FINDS	Higher	943, 0.179, SE
Y158	1455 BRYANT LLC	1455 BRYANT AVE	NY AST	Higher	946, 0.179, West
W159	CON EDISON MANHOLE 1	LONGFELLOW AVE & E 1	RCRA NonGen / NLR	Higher	949, 0.180, NNW
W160	CON EDISON	LONGFELLOW AV &	NY MANIFEST	Higher	949, 0.180, NNW
Z161	CON EDISON	1548 BRYANT AV	NY MANIFEST	Higher	953, 0.180, NNW
Y162	CON EDISON	1491 BRYANT AVE	NJ MANIFEST	Higher	956, 0.181, WNW
Y163	CON EDISON	1491 BRYANT AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	956, 0.181, WNW
Y164	CON EDISON	1491 BRYANT AVE	NY MANIFEST	Higher	956, 0.181, WNW
Y165	CON ED	1481 BRYANT AVE	NY MANIFEST	Higher	960, 0.182, WNW
Y166	CON EDISON	1481 BRYANT AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	960, 0.182, WNW
Y167	CON EDISON	1481 BRYANT AVE	NJ MANIFEST	Higher	960, 0.182, WNW
V168	LONGFELLOW HALL LLC	1142 LONGFELLOW AVE	NY AST	Higher	960, 0.182, SSW
AF169	MTA NYCT - 1142 BRON	1142 BRONX RIVER AVE	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Higher	963, 0.182, South
AC170	1160 COLGATE AVENUE	1160 COLGATE AVENUE	NY AST	Higher	965, 0.183, SSE
Y171	CON EDISON	1465 BRYANT AVE	NY MANIFEST	Higher	973, 0.184, West
AE172	FAMILY DOLLAR STORE	1274 WESTCHESTER AVE	RCRA-CESQG, FINDS, ECHO	Higher	976, 0.185, SSW
AG173	CON EDISON	1350 BRONX RIVER AV	NY MANIFEST	Higher	982, 0.186, ENE
AG174	CON EDISON	1350 BRONX RIVER AV	NY MANIFEST	Higher	982, 0.186, ENE
V175	NEW DAY II	1138 LONGFELLOW AVEN	NY AST	Higher	990, 0.188, SSW
W176	J KAUFMAN IRON WORKS	1685 BOONE AVE	RCRA NonGen / NLR, FINDS, ECHO, NY E DESIGNATION,...	Higher	991, 0.188, North
AH177	1558 BRYANT AVE.	1558 BRYANT AVENUE	NY AST	Higher	994, 0.188, NNW
AH178	CON EDISON	1558 BRYANT AV	NY MANIFEST	Higher	994, 0.188, NNW
AI179	CON EDISON	1327 ELDER AVE	NY MANIFEST	Higher	997, 0.189, East
Y180	CON EDISON	1455 BRYANT AVE	NY MANIFEST	Higher	998, 0.189, West
AI181	CON EDISON	1323 ELDER AV	NY MANIFEST	Higher	1002, 0.190, East
AC182	COLGATE TOWERS	1156 COLGATE AVE - A	RCRA-CESQG, NY MANIFEST	Higher	1021, 0.193, SSE
AA183	1219 WHEELER AVENUE	1219 WHEELER AVENUE	NY AST	Higher	1022, 0.194, SE
AJ184	CON EDISON	1483 WESTCHESTER AV	NY MANIFEST	Higher	1026, 0.194, SE
AK185	1145 LONGFELLOW AVEN	1145 LONGFELLOW AVEN	NY AST	Higher	1044, 0.198, SW
AH186	HIGHWATER TOWER CORP	995 E. 173RD ST	NY AST	Higher	1044, 0.198, NNW
AF187	HAMILTON STERLING CO	1140 BRONX RIVER RD	RCRA NonGen / NLR, FINDS, ECHO	Higher	1048, 0.198, South
AC188	1152-56 COLGATE AVE	1152-56 COLGATE AVEN	NY AST	Higher	1049, 0.199, SSE
AC189	COLGATE TOWERS	1152 COLGATE AVE - A	RCRA NonGen / NLR	Higher	1049, 0.199, SSE
AB190	SPILL NUMBER 0011458	1256 WHEELER AVE	NY LTANKS	Higher	1051, 0.199, ESE
AL191	NINA DUNN HDFC	1670 LONGFELLOW AVEN	NY AST	Higher	1053, 0.199, North
AL192	CON EDISON	1670 LONG FELLOW AV	NY MANIFEST	Higher	1053, 0.199, North
AM193	962 EAST 172ND STREE	962 EAST 172ND STREE	NY AST	Higher	1062, 0.201, WNW
AA194	FELIX APONTE/MERCEDE	1227 WHEELER AVE.	NY AST	Higher	1073, 0.203, SE
AC195	1150 COLGATE AVENUE	1150 COLGATE AVENUE	NY UST	Higher	1077, 0.204, SSE

MAPPED SITES SUMMARY

Target Property Address:
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
AE196	MEXICO BECERRILS AUT	1255 WESTCHESTER AVE	NY AST	Higher	1093, 0.207, SSW
AJ197	1493-1495 WESTCHESTE	1495 WESTCHESTER AVE	NY AST	Higher	1097, 0.208, SE
AC198	LANGSAN PROPERTY TTF	1148-50 COLGATE AVE	NY LTANKS	Higher	1104, 0.209, SSE
AC199	1148 COLGATE AVENUE	1148 COLGATE AVENUE	NY UST	Higher	1104, 0.209, SSE
AA200	1226 WHEELER AVE	1226 WHEELER AVENUE	NY AST	Higher	1113, 0.211, SE
AH201	1553-5 BRYANT AVE.	1553-5 BRYANT AVENUE	NY AST	Higher	1116, 0.211, NNW
AN202	CON EDISON	1403 BRYANT AVE	NJ MANIFEST	Higher	1129, 0.214, WSW
AN203	CON EDISON	1403 BRYANT AVE	NY MANIFEST	Higher	1129, 0.214, WSW
AN204	CON EDISON	1403 BRYANT AVE	RCRA NonGen / NLR	Higher	1129, 0.214, WSW
AK205	1131 LONGFELLOW AVE	1131 LONGFELLOW AVEN	NY AST	Higher	1134, 0.215, SW
AM206	CON EDISON MANHOLE 1	VYSE AVE & 172ND ST	RCRA NonGen / NLR	Higher	1145, 0.217, WNW
AB207	CON EDISON	W 172 ST & ELDER AVE	RCRA NonGen / NLR	Higher	1146, 0.217, East
AB208	CON EDISON	W 172 ST & ELDER AVE	NJ MANIFEST	Higher	1146, 0.217, East
AB209	CON EDISON	W 172ND ST & ELDER A	NY MANIFEST	Higher	1146, 0.217, East
AO210	NYC DEPT OF EDUCATIO	1550 VYSE AVE	RCRA-SQG, NY Spills, NY MANIFEST	Higher	1151, 0.218, NW
AO211	PUBLIC SCHOOL 50 - B	1550 VYSE AVENUE	NY AST	Higher	1151, 0.218, NW
AP212	GETTY PETROLEUM CORP	1720 BOONE AVE & E 1	RCRA NonGen / NLR, ICIS, FINDS, ECHO, NY MANIFEST	Higher	1167, 0.221, North
AK213	CON EDISON	1146 BRYANT AVE	NY Spills, NY MANIFEST	Higher	1168, 0.221, SW
AK214	SANFORD ND LLC	1142 BRYANT AVENUE	NY AST	Higher	1183, 0.224, SW
AD215	CON EDISON	1175 BRYANT AVE	NY MANIFEST	Higher	1183, 0.224, SW
AD216	CON EDISON	1175 BRYANT AV	NY MANIFEST	Higher	1183, 0.224, SW
AJ217	ACE CLEANERS	1496A WESTCHESTER AV	ICIS, US AIRS, NY DRYCLEANERS	Higher	1184, 0.224, SE
AC218	EVERGREEN ESTATE HDF	1165 EVERGREEN AVE.	NY AST	Higher	1185, 0.224, SSE
219	HOME STREET REALTY C	1001 HOME STREET	NY AST	Higher	1187, 0.225, SW
AJ220	P O M P	1184 EVERGREEN AVE	NY AST	Higher	1187, 0.225, SE
221	CONSOLIDATED EDISON	1249 ELDER AVE SB193	NY MANIFEST	Higher	1191, 0.226, ESE
AL222	LONGFELLOW AVE-HDFS	1690 LONGFELLOW AVEN	NY AST	Higher	1192, 0.226, North
AF223	NYCDEP DERTA	1120 BRONX RIVER AVE	NY MANIFEST	Higher	1210, 0.229, South
224	1130-1146 COLGATE AV	1130-1146 COLGATE AV	NY AST	Higher	1222, 0.231, SSE
225	NYCT - WHITLOCK AVEN	WHITLOCK AVE & LOWEL	RCRA-CESQG, NJ MANIFEST, NY MANIFEST	Higher	1227, 0.232, SSW
AQ226	SPECIALTY MOTOR CARS	1125 BRONX RIVER AVE	NY SWF/LF	Higher	1240, 0.235, South
AR227	CON EDISON - MANHOLE	1341 BOYNTON AVE	NY MANIFEST	Higher	1249, 0.237, ENE
AS228	1246 WESTCHESTER AVE	1246 WESTCHESTER AVE	NY AST	Higher	1251, 0.237, SSW
AQ229	CON EDISON	1123 BRONX RIVER AVE	NY MANIFEST	Higher	1252, 0.237, South
AQ230	JOHN CIVETTA & SONS,	1123 BRONX RIVER AV	NY UST	Higher	1252, 0.237, South
AR231	TANK LEAK IN REAR YA	1347 BOYNTON AVE	NY LTANKS	Higher	1255, 0.238, ENE
AJ232	1175 WHEELER AVENUE	1175 WHEELER AVENUE	NY AST	Higher	1257, 0.238, SE
AT233	1125 CLOSE AVE	1125 CLOSE AVENUE	NY UST	Higher	1266, 0.240, SSE
234	ONE MORE TIME REALTY	1160 EVERGREEN AVE	NY AST	Higher	1280, 0.242, SSE

MAPPED SITES SUMMARY

Target Property Address:
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
AQ235	CON EDISON	1117 BRONX RIVER AVE	NY MANIFEST	Higher	1283, 0.243, South
AK236	CON EDISON	1143 BRYANT AVE	NY MANIFEST	Higher	1283, 0.243, SW
AU237	1213 ELDER AVENUE	1213 ELDER AVENUE	NY AST	Higher	1285, 0.243, SE
AO238	CON EDISON	1565 VYSE AV	NY MANIFEST	Higher	1286, 0.244, NW
AS239	1120 BRYANT AVENUE	1120 BRYANT AVENUE	NY AST	Higher	1288, 0.244, SW
AO240	CON EDISON	1571 VYSE AVE	NY MANIFEST	Higher	1292, 0.245, NW
AU241	JESMITAS REALTY LLC	1209 ELDER AVENUE	NY AST	Higher	1300, 0.246, SE
AP242	LONGFELLOW AVE - HDF	1700 LONGFELLOW AVEN	NY AST	Higher	1307, 0.248, North
AV243	CON EDISON	1137 BRYANT ST	NY MANIFEST	Higher	1308, 0.248, SW
244	CON EDISON - TRANSFO	1745 W FARMS RD	NY Spills, NY MANIFEST	Higher	1315, 0.249, NNE
AU245	CON EDISON - SERVICE	1511 WESTCHESTER AVE	NY MANIFEST	Higher	1319, 0.250, SE
AP246	GETTY 276	1720 BOONE AVE	NY UST	Higher	1320, 0.250, North
AV247	APARTMENT BUILDING	1134 WEST FARMS RD	NY LTANKS	Higher	1366, 0.259, SW
AU248	1210 ELDER AVENUE	1210 ELDER AVENUE	NY LTANKS	Higher	1408, 0.267, ESE
249	BRYANT AVENUE EAST 1	1705 BRYANT AVENUE	NY LTANKS, NY UST	Higher	1476, 0.280, NNW
AW250	1151 E 165TH ST	1151 E 165TH ST	NY LTANKS	Higher	1504, 0.285, SSW
AT251	CLOSED-LACKOF RECENT	1095 CLOSE AVENUE	NY LTANKS	Higher	1507, 0.285, SSE
AX252	BASEMENT	1535 WESTCHESTER AVE	NY LTANKS, NY Spills	Higher	1557, 0.295, ESE
253	1471-3 WATSON AVENUE	1471-3 WATSON AVENUE	NY LTANKS, NY UST, NY AST, NY Spills	Higher	1582, 0.300, SSE
AW254	APRT	1075 LONGFELLOW AVE	NY LTANKS	Higher	1606, 0.304, SSW
AX255	CHASE BANK	1536 WESTCHESTER AVE	NY LTANKS, NY Spills	Higher	1685, 0.319, SE
256	MADISON SQUARE BOYS	1665 HOE AV	NY LTANKS	Higher	1694, 0.321, NW
257	1815 WEST FARMS ROAD	1815 WEST FARMS ROAD	NY VCP	Higher	1724, 0.327, NNE
258	CLOSED-LACKOF RECENT	985 EAST 167TH STREE	NY LTANKS	Higher	1777, 0.337, SW
259	CON EDISON	1213 WARD AV	NY LTANKS, NY MANIFEST	Higher	1788, 0.339, ESE
260	1050 BRONX RIVER AVE	1050 BRONX RIVER AVE	NY LTANKS	Higher	1824, 0.345, South
261	BRONX RIVER HOUSES -	1575 EAST 174TH STRE	NY LTANKS, NY Spills	Higher	1853, 0.351, ENE
262	1125 WHITLOCK AVENUE	1125 WHITLOCK AVENUE	NY VCP	Higher	1874, 0.355, SSW
AY263	BETHEL CLEANERS	1120 WESTCHESTER AVE	RCRA-LQG, NY SHWS, ICIS, FINDS, ECHO, NY MANIFEST	Higher	1928, 0.365, SW
AY264	VERIZON NEW YORK INC	1106 HOE AVENUE	NY LTANKS, NY TANKS, NY Spills	Higher	1932, 0.366, SW
265	MINFORD PL &EAST 172	MINFORD PL / E 172ND	NY LTANKS	Higher	1959, 0.371, WNW
266	1080 WHEELER AVE	1080 WHEELER AVE	NY LTANKS, NY Spills	Higher	1988, 0.377, SSE
267	SIMCHESTER REALTY	1105 BOYNTON AVE	NY LTANKS	Higher	2113, 0.400, SE
268	1797 VYSE AVE	1797 VYSE AV	NY LTANKS	Higher	2140, 0.405, North
AZ269	CLOSED-LACKOF RECENT	1372 STRAFFORD AVE.	NY LTANKS	Higher	2183, 0.413, East
BA270	EXXONMOBIL	1419 BRUCKNER BLVD	NY LTANKS, NY Spills	Higher	2200, 0.417, South
271	U- HAUL	1365 BRUCKNER BLVD	NY LTANKS	Higher	2203, 0.417, South
BB272	1035 WHEELER AVENUE	1035 WHEELER AVENUE	NY LTANKS, NY Spills	Higher	2236, 0.423, SSE
273	1025 ALDUS STREET	1025 ALDUS STREET	NY LTANKS, NY AST	Higher	2239, 0.424, SSW

MAPPED SITES SUMMARY

Target Property Address:
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
BC274	1095 SOUTHERN BLVD.-	1095 SOUTHERN BLVD.	NY BROWNFIELDS	Higher	2268, 0.430, SW
275	1605 E 174TH ST	1605 E 174TH ST	NY LTANKS	Higher	2283, 0.432, ENE
276	1800 SOUTHERN BOULEV	1776-1778 AND 1800-1	NY BROWNFIELDS	Higher	2350, 0.445, NNW
BC277	SHERIDAN EXRESSWAY -	SHERIDAN EXPRESSWAY	NY SWF/LF	Higher	2398, 0.454, SW
BD278	URBAN HOME OWNERSHIP	1700 CROTONA PARK EA	NY LTANKS	Higher	2406, 0.456, NW
BD279	SPILL NUMBER 0209146	1700 CROTONA PK EAST	NY LTANKS	Higher	2406, 0.456, NW
AZ280	1326 MORRISON AVE/CH	1326 MORRISON AVE/CH	NY LTANKS	Higher	2418, 0.458, East
BB281	1499 BRUCKNER BLVD/A	1499 BRUCKNER BLVD/A	NY LTANKS	Higher	2437, 0.462, SSE
BA282	ELITE MOTOR CARS INC	985 BRONX RIVER AVE	NY SWF/LF	Higher	2440, 0.462, South
283	HOME	1057 WARD AVE	NY LTANKS	Higher	2514, 0.476, SE
284	1899-1905 WEST FARMS	1899-1905 WEST FARMS	NY INST CONTROL, NY BROWNFIELDS	Higher	2534, 0.480, NNE
BE285	GETTY	1340 BRUCKNER BLVD	NY LTANKS, NY Spills	Higher	2568, 0.486, South
286	FABCO	1052 SOUTHERN BLVD	NY LTANKS	Higher	2574, 0.488, SW
BE287	ALAMAR CARTING CORP.	1351 GARRISON AVENUE	NY SWF/LF	Higher	2595, 0.491, South
288	1825 BOSTON ROAD	1825 BOSTON ROAD	NY VCP	Higher	2598, 0.492, North
289	SPILL NUMBER 0301007	1240 MORRISON AVENUE	NY LTANKS	Higher	2598, 0.492, East
290	IESI NY CORP - CANAL	246 - 266 CANAL PLAC	NY SWRCY	Higher	2619, 0.496, South
291	AMERICAN BANK NOTE C	TIFFANY ST & GARRISO	CORRACTS, RCRA-TSDF, RCRA NonGen / NLR, RAATS, NY...	Higher	4813, 0.912, SSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LKQ HUNTS POINT AUTO 1460 SHERIDAN EXPRES BRONX, NY 10459	NY AST Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-611085	N/A
LKQ HUNTS POINT AUTO 1480 SHERIDAN EXP BRONX, NY	NY RGA LF	N/A
HUNTS POINT AUTO WRE 1480 SHERIDAN EXPWY BRONX, NY 10473	RCRA-CESQG EPA ID:: NYD083059899 NY LTANKS Date Closed: 2005-11-28 Site ID: 83758 Program Number: 9702732 NY MANIFEST EPA ID: NYD083059899	NYD083059899
LKQ HUNTS POINT AUTO 1480 SHERIDAN EXPY BRONX, NY 10459	NY SWF/LF NY CBS Facility Status: Unregulated/Closed CBS Number: 2-000383 NY SPDES Limit Set Status Flag: A Permit Number: NYR00B428	N/A
MARINE BOILER & WELD 1428 SHERIDAN EXPRES BRONX, NY 10459	NY UST Database: UST, Date of Government Version: 09/25/2018	N/A
LKQ HUNTS POINT AUTO 1480 SHERIDAN EXPRES BRONX, NY 10459	NY CBS AST Facility Status: 1 Facility Status: 1 CBS Number: 2-000383	N/A
LKQ HUNTS POINT AUTO 1480 SHERIDAN EXPRES BRONX, NY 10459	NY AST Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-233366	N/A

EXECUTIVE SUMMARY

LKQ HUNTS POINT AUTO
1480 SHERIDAN EXPRES
BRONX, NY 10459

US AIRS N/A
Database: US AIRS MINOR, Date of Government Version: 10/12/2016
EPA plant ID:: 110009001793

FINDS
Registry ID:: 110009001793

ECHO
Registry ID: 110009001793

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

NY HIST LTANKS---------- Listing of Leaking Storage Tanks

State and tribal registered storage tank lists

FEMA UST---------- Underground Storage Tank Listing
NY MOSF UST---------- Major Oil Storage Facilities Database
NY MOSF---------- Major Oil Storage Facility Site Listing
NY MOSF AST---------- Major Oil Storage Facilities Database
INDIAN UST---------- Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

NY ENG CONTROLS---------- Registry of Engineering Controls

State and tribal voluntary cleanup sites

INDIAN VCP---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

NY ERP---------- Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

NY SWTIRE---------- Registered Waste Tire Storage & Facility List
INDIAN ODI---------- Report on the Status of Open Dumps on Indian Lands
ODI---------- Open Dump Inventory
DEBRIS REGION 9---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL---------- Delisted National Clandestine Laboratory Register
NY DEL SHWS---------- Delisted Registry Sites
US CDL---------- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

NY HIST UST---------- Historical Petroleum Bulk Storage Database
NY HIST AST---------- Historical Petroleum Bulk Storage Database

Local Land Records

NY LIENS---------- Spill Liens Information
LIENS 2---------- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS---------- Hazardous Materials Information Reporting System

NY Hist Spills ---- SPILLS Database
NY SPILLS 90 ---- SPILLS 90 data from FirstSearch
NY SPILLS 80 ---- SPILLS 80 data from FirstSearch

Other Ascertainable Records

FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
UXO ---- Unexploded Ordnance Sites
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
NY AIRS ---- Air Emissions Data
NY COAL ASH ---- Coal Ash Disposal Site Listing
NY Financial Assurance ---- Financial Assurance Information Listing
NY HSWDS ---- Hazardous Substance Waste Disposal Site Inventory
NY VAPOR REOPENED ---- Vapor Intrusion Legacy Site List
NY UIC ---- Underground Injection Control Wells
NY COOLING TOWERS ---- Registered Cooling Towers

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner ---- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

NY RGA HWS ---- Recovered Government Archive State Hazardous Waste Facilities List

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERICAN BANK NOTE C EPA ID:: NYD091214718	***TIFFANY ST & GARRISO***	***SSW 1/2 - 1 (0.912 mi.)***	***291***	***715***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VERIZON EPA ID:: NYP000971580	***WESTCHESTER AVE & HO***	***SSW 1/8 - 1/4 (0.136 mi.)***	***Q115***	***309***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 4 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LETTERA SIGN & ELECT EPA ID:: NYD001345529	***1209 BRONX RIVER AVE***	***SSE 0 - 1/8 (0.094 mi.)***	***H42***	***104***
NYCSCA - PUBLIC SCHO EPA ID:: NY0000375709	***1001 JENNINGS ST***	***W 0 - 1/8 (0.098 mi.)***	***L46***	***114***
NYC BD OF ED - PUBLI EPA ID:: NYR000010553	***1434 LONGFELLOW AVE***	***WSW 0 - 1/8 (0.123 mi.)***	***S92***	***250***
NYC DEPT OF EDUCATIO EPA ID:: NY0000903526	***1550 VYSE AVE***	***NW 1/8 - 1/4 (0.218 mi.)***	***AO210***	***492***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 5 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
J & A SERVICE - CLOS EPA ID:: NYR000115212	***1471 W FARMS RD***	***W 0 - 1/8 (0.047 mi.)***	***C14***	***38***
NYCHA - WEST FARMS R EPA ID:: NYR000151274	***1323 W FARMS RD***	***SW 0 - 1/8 (0.086 mi.)***	***I35***	***78***
FAMILY DOLLAR STORE EPA ID:: NYR000218024	***1274 WESTCHESTER AVE***	***SSW 1/8 - 1/4 (0.185 mi.)***	***AE172***	***422***
COLGATE TOWERS EPA ID:: NYR000135434	***1156 COLGATE AVE - A***	***SSE 1/8 - 1/4 (0.193 mi.)***	***AC182***	***442***
NYCT - WHITLOCK AVEN EPA ID:: NYR000121715	***WHITLOCK AVE & LOWEL***	***SSW 1/8 - 1/4 (0.232 mi.)***	***225***	***527***

State- and tribal - equivalent CERCLIS

NY SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the NY SHWS list, as provided by EDR, and dated 08/09/2018 has revealed that there is 1

NY SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BETHEL CLEANERS	***1120 WESTCHESTER AVE***	***SW 1/4 - 1/2 (0.365 mi.)***	***AY263***	***617***
Site Code: 513986				
Class Code: Significant threat to the public health or environment - action required.				

State and tribal landfill and/or solid waste disposal site lists

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 12/08/2017 has revealed that there are 4 NY SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPECIALTY MOTOR CARS	1125 BRONX RIVER AVE	S 1/8 - 1/4 (0.235 mi.)	AQ226	538
SHERIDAN EXRESSWAY -	SHERIDAN EXPRESSWAY	SW 1/4 - 1/2 (0.454 mi.)	BC277	670
ELITE MOTOR CARS INC	985 BRONX RIVER AVE	S 1/4 - 1/2 (0.462 mi.)	BA282	675
ALAMAR CARTING CORP.	1351 GARRISON AVENUE	S 1/4 - 1/2 (0.491 mi.)	BE287	707

State and tribal leaking storage tank lists

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 10/16/2018 has revealed that there are 44 NY LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BASEMENT	1661 WEST FARMS ROAD	N 0 - 1/8 (0.112 mi.)	P71	194
Site ID: 573835				
Program Number: 1804171				
LOT 15,TAXBLOCK 3014	***1560 BOONE AVENUE***	***N 0 - 1/8 (0.113 mi.)***	***N74***	***198***
Date Closed: 2005-07-19				
Site ID: 290018				
Program Number: 0307241				
GETTY #329	***1441 WESTCHESTER AVE***	***SSE 0 - 1/8 (0.121 mi.)***	***R86***	***227***
Date Closed: 2006-01-05				
Site ID: 74807				
Program Number: 9504305				
GETTY SERVICE STATIO	***1185 BRONX RIVER AVE***	***S 0 - 1/8 (0.124 mi.)***	***T99***	***265***
Date Closed: 2006-05-11				
Date Closed: 2007-05-04				
Site ID: 358914				
Site ID: 211852				

Program Number: 0512577 Program Number: 9209035				
ABALON PRECISION MFG Date Closed: 2014-09-23 Site ID: 498747 Program Number: 1405324	1174 LONGFELLOW AVE	SW 1/8 - 1/4 (0.160 mi.)	V137	353
APARTMENT BUILDING Date Closed: 2006-11-02 Site ID: 129512 Program Number: 8905394	1275 WESTCHESTER AVE	SSW 1/8 - 1/4 (0.169 mi.)	V142	361
SPILL NUMBER 0302371 Date Closed: 2003-06-10 Site ID: 126054 Program Number: 0302371	1150 LONGFELLOW AVE	SW 1/8 - 1/4 (0.172 mi.)	V148	387
GARCIA RESIDENCE Date Closed: 2005-05-27 Site ID: 342581 Program Number: 0413444	1316 WHEELER AVENUE	E 1/8 - 1/4 (0.173 mi.)	AB149	388
SPILL NUMBER 0011458 Date Closed: 2004-05-03 Site ID: 157591 Program Number: 0011458	1256 WHEELER AVE	ESE 1/8 - 1/4 (0.199 mi.)	AB190	458
LANGSAN PROPERTY TTF Date Closed: 2009-09-02 Site ID: 417594 Program Number: 0905332	1148-50 COLGATE AVE	SSE 1/8 - 1/4 (0.209 mi.)	AC198	473
TANK LEAK IN REAR YA Date Closed: 2006-01-12 Site ID: 238140 Program Number: 0400237	1347 BOYNTON AVE	ENE 1/8 - 1/4 (0.238 mi.)	AR231	546
APARTMENT BUILDING Date Closed: 2006-07-20 Site ID: 356806 Program Number: 0510769	1134 WEST FARMS RD	SW 1/4 - 1/2 (0.259 mi.)	AV247	577
1210 ELDER AVENUE Date Closed: 1996-09-23 Site ID: 325743 Program Number: 9607847	1210 ELDER AVENUE	ESE 1/4 - 1/2 (0.267 mi.)	AU248	578
BRYANT AVENUE EAST 1 Date Closed: 2008-05-20 Site ID: 161817 Program Number: 9811582	***1705 BRYANT AVENUE***	***NNW 1/4 - 1/2 (0.280 mi.)***	***249***	***579***
1151 E 165TH ST Date Closed: 2006-10-31 Site ID: 100429 Program Number: 9201510	1151 E 165TH ST	SSW 1/4 - 1/2 (0.285 mi.)	AW250	582
CLOSED-LACKOF RECENT Date Closed: 2003-03-04 Site ID: 175288 Program Number: 8903579	1095 CLOSE AVENUE	SSE 1/4 - 1/2 (0.285 mi.)	AT251	584
BASEMENT	***1535 WESTCHESTER AVE***	***ESE 1/4 - 1/2 (0.295 mi.)***	***AX252***	***585***

Date Closed: 1998-10-26 Site ID: 312997 Program Number: 9808568				
1471-3 WATSON AVENUE Date Closed: 1998-01-12 Site ID: 71469 Program Number: 9006953	***1471-3 WATSON AVENUE***	***SSE 1/4 - 1/2 (0.300 mi.)***	***253***	***587***
APRT Date Closed: 2008-10-31 Site ID: 392784 Program Number: 0711323	1075 LONGFELLOW AVE	SSW 1/4 - 1/2 (0.304 mi.)	AW254	594
CHASE BANK Date Closed: 2007-07-19 Site ID: 194710 Program Number: 0402409	***1536 WESTCHESTER AVE***	***SE 1/4 - 1/2 (0.319 mi.)***	***AX255***	***596***
MADISON SQUARE BOYS Date Closed: 2005-07-14 Site ID: 99970 Program Number: 0104700	1665 HOE AV	NW 1/4 - 1/2 (0.321 mi.)	256	600
CLOSED-LACKOF RECENT Date Closed: 2003-03-03 Site ID: 287785 Program Number: 8704609	985 EAST 167TH STREE	SW 1/4 - 1/2 (0.337 mi.)	258	601
CON EDISON Date Closed: 2000-09-19 Site ID: 171392 Program Number: 0000461	***1213 WARD AV***	***ESE 1/4 - 1/2 (0.339 mi.)***	***259***	***603***
1050 BRONX RIVER AVE Date Closed: 1991-02-11 Site ID: 230614 Program Number: 9011819	1050 BRONX RIVER AVE	S 1/4 - 1/2 (0.345 mi.)	260	607
BRONX RIVER HOUSES - Date Closed: 2006-02-03 Site ID: 240316 Site ID: 250806 Program Number: 9411941 Program Number: 9412464	***1575 EAST 174TH STRE***	***ENE 1/4 - 1/2 (0.351 mi.)***	***261***	***608***
VERIZON NEW YORK INC Date Closed: 2000-05-02 Site ID: 116014 Program Number: 9108166	***1106 HOE AVENUE***	***SW 1/4 - 1/2 (0.366 mi.)***	***AY264***	***624***
MINFORD PL &EAST 172 Date Closed: 1998-02-09 Site ID: 157699 Program Number: 8904140	MINFORD PL / E 172ND	WNW 1/4 - 1/2 (0.371 mi.)	265	627
1080 WHEELER AVE Date Closed: 2002-12-20 Site ID: 101278 Program Number: 9300539	***1080 WHEELER AVE***	***SSE 1/4 - 1/2 (0.377 mi.)***	***266***	***628***
SIMCHESTER REALTY Date Closed: 1999-03-16	1105 BOYNTON AVE	SE 1/4 - 1/2 (0.400 mi.)	267	630

Site ID: 201337 Program Number: 9814911				
1797 VYSE AVE Date Closed: 2006-03-06 Site ID: 316178 Program Number: 0112238	1797 VYSE AV	N 1/4 - 1/2 (0.405 mi.)	268	631
CLOSED-LACKOF RECENT Date Closed: 2003-03-03 Site ID: 325285 Program Number: 8704437	1372 STRAFFORD AVE.	E 1/4 - 1/2 (0.413 mi.)	AZ269	632
EXXONMOBIL Date Closed: 1993-12-14 Site ID: 297773 Program Number: 9112926	***1419 BRUCKNER BLVD***	***S 1/4 - 1/2 (0.417 mi.)***	***BA270***	***634***
U- HAUL Date Closed: 2007-06-29 Site ID: 150546 Program Number: 9407671	1365 BRUCKNER BLVD	S 1/4 - 1/2 (0.417 mi.)	271	650
1035 WHEELER AVENUE Date Closed: 1996-12-30 Site ID: 60767 Program Number: 9611589	***1035 WHEELER AVENUE***	***SSE 1/4 - 1/2 (0.423 mi.)***	***BB272***	***653***
1025 ALDUS STREET Date Closed: 1993-01-07 Site ID: 117140 Program Number: 9211493	***1025 ALDUS STREET***	***SSW 1/4 - 1/2 (0.424 mi.)***	***273***	***656***
1605 E 174TH ST Date Closed: 1992-03-06 Site ID: 198463 Program Number: 9112455	1605 E 174TH ST	ENE 1/4 - 1/2 (0.432 mi.)	275	665
URBAN HOME OWNERSHIP Date Closed: 1998-01-23 Site ID: 109626 Program Number: 9711887	1700 CROTONA PARK EA	NW 1/4 - 1/2 (0.456 mi.)	BD278	671
SPILL NUMBER 0209146 Date Closed: 2003-06-30 Site ID: 311080 Program Number: 0209146	1700 CROTONA PK EAST	NW 1/4 - 1/2 (0.456 mi.)	BD279	672
1326 MORRISON AVE/CH Date Closed: 1991-11-06 Site ID: 221719 Program Number: 9108377	1326 MORRISON AVE/CH	E 1/4 - 1/2 (0.458 mi.)	AZ280	673
1499 BRUCKNER BLVD/A Date Closed: 1992-06-18 Site ID: 233503 Program Number: 9200547	1499 BRUCKNER BLVD/A	SSE 1/4 - 1/2 (0.462 mi.)	BB281	674
HOME Date Closed: 2017-02-21 Site ID: 538749 Program Number: 1609935	1057 WARD AVE	SE 1/4 - 1/2 (0.476 mi.)	283	676
GETTY	***1340 BRUCKNER BLVD***	***S 1/4 - 1/2 (0.486 mi.)***	***BE285***	***700***

Date Closed: 1999-08-13
Date Closed: 1999-06-04
Date Closed: 1992-11-02
Site ID: 246545
Site ID: 246546
Site ID: 321907
Program Number: 9900624
Program Number: 9901242
Program Number: 9207805

FABCO Date Closed: 2003-07-07 Site ID: 207160 Program Number: 0110464	1052 SOUTHERN BLVD	SW 1/4 - 1/2 (0.488 mi.)	286	705
SPILL NUMBER 0301007 Date Closed: 2003-09-16 Date Closed: 2015-11-17 Site ID: 73564 Site ID: 382768 Program Number: 0301007 Program Number: 0702940	1240 MORRISON AVENUE	E 1/4 - 1/2 (0.492 mi.)	289	709

State and tribal registered storage tank lists

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, has revealed that there are 16 NY UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
J & L AUTO SEV Database: UST, Date of Government Version: 09/25/2018	1471 W FARMS RD	W 0 - 1/8 (0.047 mi.)	C13	33
WEST FARMS ESTATES Database: UST, Date of Government Version: 09/25/2018	1310 WEST FARMS ROAD	SW 0 - 1/8 (0.097 mi.)	I44	110
AMBUTRANS HOLDING CO Database: UST, Date of Government Version: 09/25/2018	***1028 FREEMAN STREET***	***SW 0 - 1/8 (0.099 mi.)***	***K47***	***117***
1013 FREEMAN STREET Database: UST, Date of Government Version: 09/25/2018	1013 FREEMAN STREET	SW 0 - 1/8 (0.101 mi.)	I48	120
FBHC Database: UST, Date of Government Version: 09/25/2018	***1 WEST FARMS ROAD***	***SSW 0 - 1/8 (0.105 mi.)***	***K52***	***126***
DSNY BX DISTRICT 3A Database: UST, Date of Government Version: 09/25/2018	1661 WEST FARMS ROAD	N 0 - 1/8 (0.112 mi.)	P69	185
GLOBAL MONTELLO GROU Database: UST, Date of Government Version: 09/25/2018	1441 WESTCHESTER AVE	SSE 0 - 1/8 (0.121 mi.)	R85	218
GLOBAL MONTELLO GROU Database: UST, Date of Government Version: 09/25/2018	***1185 BRONX RIVER AVE***	***S 0 - 1/8 (0.124 mi.)***	***T100***	***278***
VICPAT REALTY CORP Database: UST, Date of Government Version: 09/25/2018	1452 WESTCHESTER AVE	SSE 1/8 - 1/4 (0.148 mi.)	R124	325
1150 BRONX RIVER AVE Database: UST, Date of Government Version: 09/25/2018	1150 BRONX RIVER AVE	S 1/8 - 1/4 (0.154 mi.)	T132	344

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ADHESIVE PRODUCTS	***1660-1668 BOONE AVEN***	***N 1/8 - 1/4 (0.171 mi.)***	***W144***	***365***
Database: UST, Date of Government Version: 09/25/2018				
1150 COLGATE AVENUE	1150 COLGATE AVENUE	SSE 1/8 - 1/4 (0.204 mi.)	AC195	467
Database: UST, Date of Government Version: 09/25/2018				
1148 COLGATE AVENUE	1148 COLGATE AVENUE	SSE 1/8 - 1/4 (0.209 mi.)	AC199	475
Database: UST, Date of Government Version: 09/25/2018				
JOHN CIVETTA & SONS,	1123 BRONX RIVER AV	S 1/8 - 1/4 (0.237 mi.)	AQ230	543
Database: UST, Date of Government Version: 09/25/2018				
1125 CLOSE AVE	1125 CLOSE AVENUE	SSE 1/8 - 1/4 (0.240 mi.)	AT233	550
Database: UST, Date of Government Version: 09/25/2018				
GETTY 276	1720 BOONE AVE	N 1/8 - 1/4 (0.250 mi.)	AP246	572
Database: UST, Date of Government Version: 09/25/2018				

NY CBS UST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the NY CBS UST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 NY CBS UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ADHESIVE PRODUCTS	***1660-1668 BOONE AVEN***	***N 1/8 - 1/4 (0.171 mi.)***	***W144***	***365***
Facility Status: 4				
Id/Status: 2-000246				
Tank Status: 2				

NY CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the NY CBS list, as provided by EDR, and dated 09/25/2018 has revealed that there are 2 NY CBS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
APEX SALES TOWING &	***1235 BRONX RIVER AVE***	***SSE 0 - 1/8 (0.073 mi.)***	***G25***	***63***
Facility Status: Unregulated/Closed				
CBS Number: 2-000425				
ADHESIVE PRODUCTS	***1660-1668 BOONE AVEN***	***N 1/8 - 1/4 (0.171 mi.)***	***W144***	***365***
Facility Status: Unregulated/Closed				
CBS Number: 2-000246				

EXECUTIVE SUMMARY

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, has revealed that there are 55 NY AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHERIDAN AUTO REPAIR Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-611774	1476 SHERIDAN EXPRES	SSW 0 - 1/8 (0.016 mi.)	B10	30
NONE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-610205	1040 - 1052 EDGEWATE	SSW 0 - 1/8 (0.070 mi.)	F20	49
APEX SALES, TOWING & Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-610044	1235 BRONX RIVER AVE	SSE 0 - 1/8 (0.073 mi.)	G24	61
SHERIDAN GARAGE CORP Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-612337	1040 FREEMAN STREET	SSW 0 - 1/8 (0.093 mi.)	K41	102
PUBLIC SCHOOL 66 - B Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-604868	1001 JENNINGS STREET	W 0 - 1/8 (0.098 mi.)	L45	112
MRC 754 E. 161ST ST Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-605595	1504 LONGFELLOW AVE.	WNW 0 - 1/8 (0.107 mi.)	E55	131
MRC/754 E 161ST HDFC Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-605594	1500 LONGFELLOW AVE.	WNW 0 - 1/8 (0.107 mi.)	O56	133
MRC/754 E. 161ST HDF Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-605593	1496 LONGFELLOW AVE.	WNW 0 - 1/8 (0.108 mi.)	L57	136
DSNY BX DISTRICT 3A Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-455598	1661 WEST FARMS ROAD	N 0 - 1/8 (0.112 mi.)	P68	178
FERRIS STAHL MEYER P Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-605285	1560 BOONE AVENUE	N 0 - 1/8 (0.113 mi.)	N73	196
1563 BOONE AVE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-609862	1563 BOONE AVENUE	NNW 0 - 1/8 (0.115 mi.)	N75	199
GLOBAL MONTELLO GROU Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-152897	1441 WESTCHESTER AVE	SSE 0 - 1/8 (0.121 mi.)	R88	240
P.S. 811 (OLD I84) - Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-351903	1434 LONGFELLOW AVEN	WSW 0 - 1/8 (0.123 mi.)	S91	245
GLOBAL MONTELLO GROU Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-153524	***1185 BRONX RIVER AVE***	***S 0 - 1/8 (0.124 mi.)***	***T100***	***278***
ABALON PRECISION MFG Database: AST, Date of Government Version: 09/25/2018	1040 HOME STREET	SW 1/8 - 1/4 (0.132 mi.)	K107	298

Facility Id: 2-605331				
TABS LA MAQUINA AUTO Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-610009	1301 WESTCHESTER AVE	SSW 1/8 - 1/4 (0.134 mi.)	Q114	307
1084-1086 HOME ST. Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-604903	1084 HOME STREET	SSW 1/8 - 1/4 (0.145 mi.)	Q120	317
1084 - 1086_HOME STR Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-469106	1084-1086 HOME STREE	SSW 1/8 - 1/4 (0.145 mi.)	Q121	319
1468 BRYANT REALTY L Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-153249	1468 BRYANT AVENUE	W 1/8 - 1/4 (0.157 mi.)	Y135	349
1528 BRYANT AVENUE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-607961	1528 BRYANT AVE	NW 1/8 - 1/4 (0.158 mi.)	Z136	351
1226 EVERGREEN LLC Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-605289	1226 EVERGREEN AVENU	SE 1/8 - 1/4 (0.164 mi.)	AA139	356
JOSE R. LOPEZ DBA/ J Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-611932	1661 BOONE AVENUE	N 1/8 - 1/4 (0.169 mi.)	W141	359
NEW DAY I Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-477443	1275 WESTCHESTER AVE	SSW 1/8 - 1/4 (0.169 mi.)	V143	363
BLUEBIRD REALTY COMP Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-259985	1182 WEST FARMS ROAD	SW 1/8 - 1/4 (0.177 mi.)	AD154	394
1455 BRYANT LLC Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-306460	1455 BRYANT AVE	W 1/8 - 1/4 (0.179 mi.)	Y158	400
LONGFELLOW HALL LLC Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-068772	1142 LONGFELLOW AVE	SSW 1/8 - 1/4 (0.182 mi.)	V168	414
1160 COLGATE AVENUE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-608817	1160 COLGATE AVENUE	SSE 1/8 - 1/4 (0.183 mi.)	AC170	419
NEW DAY II Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-477435	1138 LONGFELLOW AVEN	SSW 1/8 - 1/4 (0.188 mi.)	V175	428
1558 BRYANT AVE. Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-603982	1558 BRYANT AVENUE	NNW 1/8 - 1/4 (0.188 mi.)	AH177	434
1219 WHEELER AVENUE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-287075	1219 WHEELER AVENUE	SE 1/8 - 1/4 (0.194 mi.)	AA183	445
1145 LONGFELLOW AVEN Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-603391	1145 LONGFELLOW AVEN	SW 1/8 - 1/4 (0.198 mi.)	AK185	448
HIGHWATER TOWER CORP Database: AST, Date of Government Version: 09/25/2018	995 E. 173RD ST	NNW 1/8 - 1/4 (0.198 mi.)	AH186	450

Facility Id: 2-611027				
1152-56 COLGATE AVE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-274917	1152-56 COLGATE AVEN	SSE 1/8 - 1/4 (0.199 mi.)	AC188	455
NINA DUNN HDFC Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-608928	1670 LONGFELLOW AVEN	N 1/8 - 1/4 (0.199 mi.)	AL191	459
962 EAST 172ND STREE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-468371	962 EAST 172ND STREE	WNW 1/8 - 1/4 (0.201 mi.)	AM193	463
FELIX APONTE/MERCEDE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-605564	1227 WHEELER AVE.	SE 1/8 - 1/4 (0.203 mi.)	AA194	465
MEXICO BECERRILS AUT Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-604965	1255 WESTCHESTER AVE	SSW 1/8 - 1/4 (0.207 mi.)	AE196	469
1493-1495 WESTCHESTE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-045373	1495 WESTCHESTER AVE	SE 1/8 - 1/4 (0.208 mi.)	AJ197	471
1226 WHEELER AVE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-606371	1226 WHEELER AVENUE	SE 1/8 - 1/4 (0.211 mi.)	AA200	477
1553-5 BRYANT AVE. Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-603980	1553-5 BRYANT AVENUE	NNW 1/8 - 1/4 (0.211 mi.)	AH201	479
1131 LONGFELLOW AVE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-609409	1131 LONGFELLOW AVEN	SW 1/8 - 1/4 (0.215 mi.)	AK205	484
PUBLIC SCHOOL 50 - B Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-606238	1550 VYSE AVENUE	NW 1/8 - 1/4 (0.218 mi.)	AO211	496
SANFORD ND LLC Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-612686	1142 BRYANT AVENUE	SW 1/8 - 1/4 (0.224 mi.)	AK214	506
EVERGREEN ESTATE HDF Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-612111	1165 EVERGREEN AVE.	SSE 1/8 - 1/4 (0.224 mi.)	AC218	513
HOME STREET REALTY C Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-267104	1001 HOME STREET	SW 1/8 - 1/4 (0.225 mi.)	219	515
P O M P Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-285269	1184 EVERGREEN AVE	SE 1/8 - 1/4 (0.225 mi.)	AJ220	517
LONGFELLOW AVE-HDFS Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-110353	1690 LONGFELLOW AVEN	N 1/8 - 1/4 (0.226 mi.)	AL222	520
1130-1146 COLGATE AV Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-605238	1130-1146 COLGATE AV	SSE 1/8 - 1/4 (0.231 mi.)	224	524
1246 WESTCHESTER AVE Database: AST, Date of Government Version: 09/25/2018	1246 WESTCHESTER AVE	SSW 1/8 - 1/4 (0.237 mi.)	AS228	539

Facility Id: 2-604909

1175 WHEELER AVENUE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-457175	1175 WHEELER AVENUE	SE 1/8 - 1/4 (0.238 mi.)	AJ232	548
ONE MORE TIME REALTY Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-248495	1160 EVERGREEN AVE	SSE 1/8 - 1/4 (0.242 mi.)	234	552
1213 ELDER AVENUE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-605286	1213 ELDER AVENUE	SE 1/8 - 1/4 (0.243 mi.)	AU237	557
1120 BRYANT AVENUE Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-605187	1120 BRYANT AVENUE	SW 1/8 - 1/4 (0.244 mi.)	AS239	561
JESMITAS REALTY LLC Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-234370	1209 ELDER AVENUE	SE 1/8 - 1/4 (0.246 mi.)	AU241	564
LONGFELLOW AVE - HDF Database: AST, Date of Government Version: 09/25/2018 Facility Id: 2-110361	1700 LONGFELLOW AVEN	N 1/8 - 1/4 (0.248 mi.)	AP242	566

State and tribal institutional control / engineering control registries

NY RES DECL: A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

A review of the NY RES DECL list, as provided by EDR, has revealed that there are 2 NY RES DECL sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 9,TAXBLOCK 3014 Database: ENV RES DECL, Date of Government Version: 05/15/2018	***1544 BOONE AVENUE***	***NNW 0 - 1/8 (0.071 mi.)***	***D22***	***56***
LOT 15,TAXBLOCK 3014 Database: ENV RES DECL, Date of Government Version: 05/15/2018	***1560 BOONE AVENUE***	***N 0 - 1/8 (0.113 mi.)***	***N74***	***198***

Environmental Remediation sites that have institutional controls in place.

A review of the NY INST CONTROL list, as provided by EDR, and dated 08/09/2018 has revealed that there is 1 NY INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
1899-1905 WEST FARMS Site Code: 488955	***1899-1905 WEST FARMS***	***NNE 1/4 - 1/2 (0.480 mi.)***	***284***	***677***

State and tribal voluntary cleanup sites

NY VCP: Voluntary Cleanup Agreements. The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

A review of the NY VCP list, as provided by EDR, has revealed that there are 5 NY VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
1544 BOONE AVENUE "C Database: VCP NYC, Date of Government Version: 03/26/2018	1544 BOONE AVENUE "C	NNW 0 - 1/8 (0.071 mi.)	D21	55
1560 BOONE AVENUE Database: VCP NYC, Date of Government Version: 03/26/2018	1560 BOONE AVENUE	N 0 - 1/8 (0.113 mi.)	N72	195
1815 WEST FARMS ROAD Database: VCP NYC, Date of Government Version: 03/26/2018	1815 WEST FARMS ROAD	NNE 1/4 - 1/2 (0.327 mi.)	257	601
1125 WHITLOCK AVENUE Database: VCP NYC, Date of Government Version: 03/26/2018	1125 WHITLOCK AVENUE	SSW 1/4 - 1/2 (0.355 mi.)	262	616
1825 BOSTON ROAD Database: VCP NYC, Date of Government Version: 03/26/2018	1825 BOSTON ROAD	N 1/4 - 1/2 (0.492 mi.)	288	708

State and tribal Brownfields sites

NY BROWNFIELDS: Brownfields Site List

A review of the NY BROWNFIELDS list, as provided by EDR, and dated 08/09/2018 has revealed that there are 3 NY BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
1095 SOUTHERN BLVD.- Site Code: 442053 Site Code: 461295	1095 SOUTHERN BLVD.	SW 1/4 - 1/2 (0.430 mi.)	BC274	659
1800 SOUTHERN BOULEV Site Code: 402262	1776-1778 AND 1800-1	NNW 1/4 - 1/2 (0.445 mi.)	276	666
1899-1905 WEST FARMS Site Code: 488955	***1899-1905 WEST FARMS***	***NNE 1/4 - 1/2 (0.480 mi.)***	***284***	***677***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

Registered Recycling Facility List from the Department of Environmental Conservation.

A review of the NY SWRCY list, as provided by EDR, and dated 12/08/2017 has revealed that there is 1 NY SWRCY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IESI NY CORP - CANAL	246 - 266 CANAL PLAC	S 1/4 - 1/2 (0.496 mi.)	290	714

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 10/16/2018 has revealed that there are 34 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BRONX RIVER Date Closed: 2003-02-12 Spill Number: 9800775 Site ID: 306169	EAST 172ND ST/WESTCH	S 0 - 1/8 (0.023 mi.)	11	32
J & A SERVICE - CLOS Date Closed: 2003-07-10 Spill Number: 9913455 Site ID: 298823	***1471 W FARMS RD***	***W 0 - 1/8 (0.047 mi.)***	***C14***	***38***
ABANDONED SERVICE ST Date Closed: 2003-09-08 Spill Number: 0300164 Site ID: 85601	1471 WEST FARM RD	W 0 - 1/8 (0.053 mi.)	C16	43
UNDERGROUND TRANSFOR Date Closed: 2009-08-19 Spill Number: 9712148 Site ID: 187219	1565 WEST FARMS RD	N 0 - 1/8 (0.062 mi.)	D18	46
I/A/O BOONEY AVE & 1 Date Closed: 2009-06-26 Spill Number: 0903264 Site ID: 415365	BOONEY AVE & 172ND S	NW 0 - 1/8 (0.070 mi.)	E19	48
LOT 9,TAXBLOCK 3014 Date Closed: 2017-04-25 Spill Number: 1403152 Site ID: 496500	***1544 BOONE AVENUE***	***NNW 0 - 1/8 (0.071 mi.)***	***D22***	***56***
APEX SALES TOWING & Date Closed: 2006-08-29 Spill Number: 0605983 Site ID: 369262	***1235 BRONX RIVER AVE***	***SSE 0 - 1/8 (0.073 mi.)***	***G25***	***63***
215315; 1243 BRONX R Date Closed: 2009-01-27 Spill Number: 0913981 Site ID: 432904	1243 BRONX RIVER AVE	SSE 0 - 1/8 (0.084 mi.)	G29	71
BRONX RIVER Date Closed: 2005-08-22 Spill Number: 0506235 Site ID: 351408	WESTCHESTER AVE/EDGE	SSW 0 - 1/8 (0.085 mi.)	F30	72
VAULT 1744	EDGEWATER RD AND WES	SSW 0 - 1/8 (0.085 mi.)	F31	73

Date Closed: 2007-05-03 Spill Number: 0507685 Site ID: 353141				
ROADWAY Date Closed: 2017-10-11 Spill Number: 1706759 Site ID: 561082	WESTCHESTER AVE AND	SSW 0 - 1/8 (0.085 mi.)	F32	75
WESTCHESTER OFF RAMP Date Closed: 2007-04-13 Spill Number: 0700426 Site ID: 379768	SHERIDAN EXPRESSWAY	SSW 0 - 1/8 (0.087 mi.)	F37	98
SHERATON EXPRESSWAY Date Closed: 1998-06-03 Spill Number: 9611127 Site ID: 163422	SERVICE RD&WESTCHEST	SSW 0 - 1/8 (0.087 mi.)	F38	99
PRIVATE RESIDENCE Spill Number: 0910947 Site ID: 423722	1277 BRONX RIVER AVE	ESE 0 - 1/8 (0.091 mi.)	J39	100
AMBUTRANS HOLDING CO Date Closed: 2006-04-10 Spill Number: 0302597 Site ID: 207170	***1028 FREEMAN STREET***	***SW 0 - 1/8 (0.099 mi.)***	***K47***	***117***
FBHC Date Closed: 1996-05-09 Spill Number: 9601923 Site ID: 60333	***1 WEST FARMS ROAD***	***SSW 0 - 1/8 (0.105 mi.)***	***K52***	***126***
STRIP MALL Date Closed: 2010-03-05 Spill Number: 0911990 Site ID: 424851	1299-1309 BRONX RIVE	E 0 - 1/8 (0.106 mi.)	M53	130
THOMAS RES Date Closed: 2004-06-16 Spill Number: 9815456 Site ID: 225191	1252 BRONX RIVER AVE	SE 0 - 1/8 (0.108 mi.)	G58	138
BRONX RIVER AV/WESTC Date Closed: 1995-12-15 Spill Number: 9511693 Site ID: 295537	BX RIVER AV/WESTCHES	SSE 0 - 1/8 (0.108 mi.)	H59	139
WESTCHESTER @ CLOSE Date Closed: 1989-12-29 Spill Number: 8909355 Site ID: 163893	WESTCHESTER AV @ CLO	SSE 0 - 1/8 (0.109 mi.)	H65	146
CON EDISON - MANHOLE Date Closed: 2009-04-09 Date Closed: 2005-05-09 Spill Number: 0011836 Spill Number: 9810571 Spill Number: 0314316 Site ID: 131988 Site ID: 131989 Site ID: 258760	***1661 W FARMS RD***	***N 0 - 1/8 (0.112 mi.)***	***P67***	***149***
SERVICE BOX 2252	1230 COLGATE AV	SE 0 - 1/8 (0.115 mi.)	G76	201

Date Closed: 2000-03-02 Spill Number: 9912859 Site ID: 162355				
WELFARE OFFICE BLDG Date Closed: 1998-02-18 Date Closed: 2012-09-25 Date Closed: 1997-11-19 Spill Number: 9712845 Spill Number: 9700109 Spill Number: 9704954 Site ID: 140405 Site ID: 74616 Site ID: 74617	1209 COLGATE AVE	SSE 0 - 1/8 (0.121 mi.)	R82	211
BELOW DISPENSORS Date Closed: 2014-03-31 Spill Number: 1311378 Site ID: 492273	1441 WESTCHESTER AVE	SSE 0 - 1/8 (0.121 mi.)	R83	216
GETTY #329 Date Closed: 2007-06-26 Date Closed: 2008-01-28 Date Closed: 2008-03-17 Date Closed: 2008-03-07 Date Closed: 2008-06-17 **Additional key fields are available in the Map Findings section* Spill Number: 0700976 Spill Number: 0702499 Spill Number: 0711051 Spill Number: 0713251 Spill Number: 0712861 **Additional key fields are available in the Map Findings section* Site ID: 380374 Site ID: 382240 Site ID: 392464 Site ID: 394977 Site ID: 394539 **Additional key fields are available in the Map Findings section*	***1441 WESTCHESTER AVE***	***SSE 0 - 1/8 (0.121 mi.)***	***R86***	***227***
GETTY GAS STATION Date Closed: 2013-03-29 Spill Number: 1215811 Site ID: 479143	1441 WESTCHESTER AVE	SSE 0 - 1/8 (0.121 mi.)	R87	239
ALLIANCE ENERGY LLC Date Closed: 2013-03-04 Spill Number: 1215865 Site ID: 479197	1441 WESTCHESTER AVE	SSE 0 - 1/8 (0.121 mi.)	R89	243
MANHOLE 495 Date Closed: 2002-02-22 Spill Number: 9908693 Site ID: 298677	WEST FARM RD/ FREEDM	SW 0 - 1/8 (0.121 mi.)	I90	244
NYC BD OF ED - PUBLI Date Closed: 2011-09-19 Spill Number: 1103358 Site ID: 450919	***1434 LONGFELLOW AVE***	***WSW 0 - 1/8 (0.123 mi.)***	***S92***	***250***
DRUM RUN - PARKING L	1321 BRONX RIVER AVE	E 0 - 1/8 (0.123 mi.)	M94	255

Date Closed: 2005-09-29
Spill Number: 0505211
Site ID: 350267

BUSINESS SERVICE STA	1185 BRONX RIVER AVE	S 0 - 1/8 (0.124 mi.)	T96	261
Date Closed: 2018-02-05 Spill Number: 1708566 Site ID: 564977				
GETTY # 268	1185 BRONXRIVER AVE	S 0 - 1/8 (0.124 mi.)	T98	264
Date Closed: 2009-05-26 Spill Number: 0902005 Site ID: 414034				
GETTY SERVICE STATIO	***1185 BRONX RIVER AVE***	***S 0 - 1/8 (0.124 mi.)***	***T99***	***265***

Date Closed: 2007-04-25
Date Closed: 2008-03-17
Date Closed: 2008-11-18
Date Closed: 2009-02-13
Date Closed: 2004-08-31
**Additional key fields are available in the Map Findings section*
Spill Number: 0700963
Spill Number: 0713291
Spill Number: 0809157
Spill Number: 0810541
Spill Number: 0313483
**Additional key fields are available in the Map Findings section*
Site ID: 380356
Site ID: 395017
Site ID: 406599
Site ID: 408067
Site ID: 245752
**Additional key fields are available in the Map Findings section*

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX RIVER	WESTCHESTER AVE	S 0 - 1/8 (0.073 mi.)	H26	67
Date Closed: 2005-05-03 Spill Number: 0008407 Site ID: 325485				

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there are 34 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYC DEP	***1508 BOONE AVE***	***NW 0 - 1/8 (0.057 mi.)***	***C17***	***44***

EPA ID:: NYP003664406				
CON EDISON EPA ID:: NYP004163549	***1243 BRONX RIVER AVE***	***SSE 0 - 1/8 (0.071 mi.)***	***G23***	***59***
CON EDISON EPA ID:: NYP004786695	***1524 LONGFELLOW AVE***	***NW 0 - 1/8 (0.104 mi.)***	***E50***	***123***
CON EDISON EPA ID:: NYP004762779	***1526 LONGFELLOW AVE***	***NW 0 - 1/8 (0.109 mi.)***	***E60***	***140***
VERIZON EPA ID:: NYP000964940	W CHESTER & BRONX R	SSE 0 - 1/8 (0.109 mi.)	H63	144
CON EDISON MANHOLE 2 EPA ID:: NYP004246114	***BRONX RIVER AVE & CL***	***SSE 0 - 1/8 (0.109 mi.)***	***H66***	***147***
NYC DEPT OF SANITATI EPA ID:: NYD986869774	***1661 W FARMS RD BX-W***	***N 0 - 1/8 (0.112 mi.)***	***P70***	***192***
G M T TILE CORP EPA ID:: NYD981179120	***1077 HOME ST***	***SSW 0 - 1/8 (0.120 mi.)***	***K78***	***204***
CON EDISON MANHOLE 2 EPA ID:: NYP004223723	WESTCHESTER AVE & WH	SSW 0 - 1/8 (0.121 mi.)	Q81	210
GETTY SERVICE STATIO EPA ID:: NYD987002003	***1185 BRONX RIVER AVE***	***S 0 - 1/8 (0.124 mi.)***	***T95***	***256***
CON EDISON EPA ID:: NYP004725065	***1000 FREEMAN ST***	***SW 0 - 1/8 (0.125 mi.)***	***U103***	***294***
CON EDISON EPA ID:: NYP004840118	***1004 FREELAND AVE***	***SW 1/8 - 1/4 (0.129 mi.)***	***I104***	***295***
CON EDISON EPA ID:: NYP004762522	***1499 LONGFELLOW***	***WNW 1/8 - 1/4 (0.133 mi.)***	***O108***	***300***
CON EDISON EPA ID:: NYP004788394	1499 LONGFELLOW	WNW 1/8 - 1/4 (0.133 mi.)	O111	304
CON EDISON TRANSFORM EPA ID:: NYP004516092	E 173RD ST & WEST FA	NNE 1/8 - 1/4 (0.137 mi.)	P119	316
ABALON PRECISION MFG EPA ID:: NYN008006645	***1074 HOME ST***	***SSW 1/8 - 1/4 (0.146 mi.)***	***V122***	***321***
B S AUTO PARTS EPA ID:: NY0000298794	***1170 BRONX RIVER AVE***	***SSE 1/8 - 1/4 (0.148 mi.)***	***T123***	***323***
ALEX AUTO REPAIR SHO EPA ID:: NYR000063396	***1006 E 173RD ST***	***N 1/8 - 1/4 (0.149 mi.)***	***W125***	***332***
CON EDISON SERVICE B EPA ID:: NYP004534368	1252 EVERGREEN AVE	ESE 1/8 - 1/4 (0.151 mi.)	X127	336
CON EDISON EPA ID:: NYP004795753	173RD ST & BOONE AVE	N 1/8 - 1/4 (0.152 mi.)	W130	340
ADHESIVE PRODUCTS CO EPA ID:: NYD001360031	***1660-1684 BOONE AVE***	***N 1/8 - 1/4 (0.171 mi.)***	***W145***	***377***
CON EDISON SERVICE B EPA ID:: NYP004567970	***1214 EVERGREEN AVE***	***SE 1/8 - 1/4 (0.179 mi.)***	***AA157***	***399***
CON EDISON MANHOLE 1 EPA ID:: NYP004216323	LONGFELLOW AVE & E 1	NNW 1/8 - 1/4 (0.180 mi.)	W159	402
CON EDISON	***1491 BRYANT AVE***	***WNW 1/8 - 1/4 (0.181 mi.)***	***Y163***	***407***

EPA ID:: NYP004775029				
CON EDISON EPA ID:: NYP004775045	***1481 BRYANT AVE***	***WNW 1/8 - 1/4 (0.182 mi.)***	***Y166***	***411***
MTA NYCT - 1142 BRON EPA ID:: NYR000100313	***1142 BRONX RIVER AVE***	***S 1/8 - 1/4 (0.182 mi.)***	***AF169***	***416***
J KAUFMAN IRON WORKS EPA ID:: NYR000100537	***1685 BOONE AVE***	***N 1/8 - 1/4 (0.188 mi.)***	***W176***	***430***
HAMILTON STERLING CO EPA ID:: NYD001309582	***1140 BRONX RIVER RD***	***S 1/8 - 1/4 (0.198 mi.)***	***AF187***	***452***
COLGATE TOWERS EPA ID:: NYR000135491	1152 COLGATE AVE - A	SSE 1/8 - 1/4 (0.199 mi.)	AC189	457
CON EDISON EPA ID:: NYP004803433	1403 BRYANT AVE	WSW 1/8 - 1/4 (0.214 mi.)	AN204	484
CON EDISON MANHOLE 1 EPA ID:: NYP004217869	VYSE AVE & 172ND ST	WNW 1/8 - 1/4 (0.217 mi.)	AM206	487
CON EDISON EPA ID:: NYP004818714	W 172 ST & ELDER AVE	E 1/8 - 1/4 (0.217 mi.)	AB207	487
GETTY PETROLEUM CORP EPA ID:: NYR000047670	***1720 BOONE AVE & E 1***	***N 1/8 - 1/4 (0.221 mi.)***	***AP212***	***499***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCDOT EPA ID:: NY0000204529	WESTCHESTER AVE OVER	S 0 - 1/8 (0.079 mi.)	H28	70

NY DRYCLEANERS: A listing of all registered drycleaning facilities.

A review of the NY DRYCLEANERS list, as provided by EDR, and dated 03/07/2018 has revealed that there are 2 NY DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLGATE DRY CLEANERS Facility Id: 2-6007-00787	***1170 COLGATE AVE***	***SSE 1/8 - 1/4 (0.176 mi.)***	***AC151***	***391***
ACE CLEANERS Facility Id: 2-6007-00804	***1496A WESTCHESTER AV***	***SE 1/8 - 1/4 (0.224 mi.)***	***AJ217***	***511***

NY E DESIGNATION: Lots designation with an ?E? on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts.

A review of the NY E DESIGNATION list, as provided by EDR, and dated 08/21/2018 has revealed that there are 3 NY E DESIGNATION sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 44,TAXBLOCK 3009	1015 EAST 172 STREET	NW 0 - 1/8 (0.086 mi.)	E36	97
LOT 38,TAXBLOCK 3009	1529 BOONE AVENUE	NNW 0 - 1/8 (0.096 mi.)	D43	109
LOT 37,TAXBLOCK 3009	1549 BOONE AVENUE	NNW 0 - 1/8 (0.106 mi.)	N54	131

EXECUTIVE SUMMARY

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 07/01/2018 has revealed that there are 79 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
J & A SERVICE - CLOS EPA ID: NYR000115212	***1471 W FARMS RD***	***W 0 - 1/8 (0.047 mi.)***	***C14***	***38***
NYC DEP EPA ID: NYP003664406	***1508 BOONE AVE***	***NW 0 - 1/8 (0.057 mi.)***	***C17***	***44***
CON EDISON EPA ID: NYP004163549	***1243 BRONX RIVER AVE***	***SSE 0 - 1/8 (0.071 mi.)***	***G23***	***59***
CON EDISON EPA ID: NYP004599866	1521 BOONE AVE	NW 0 - 1/8 (0.078 mi.)	E27	68
CON EDISON - SERVICE EPA ID: NYP004936944	WESTCHESTER AVE & ED	SSW 0 - 1/8 (0.085 mi.)	F33	76
CON EDISON EPA ID: NYP004599288	1314 WEST FARMS ROAD	SW 0 - 1/8 (0.086 mi.)	I34	76
NYCHA - WEST FARMS R EPA ID: NYR000151274	***1323 W FARMS RD***	***SW 0 - 1/8 (0.086 mi.)***	***I35***	***78***
CONSOLIDATED EDISON EPA ID: NYP004104113	1267 BRONX RIVER AVE	SE 0 - 1/8 (0.092 mi.)	J40	101
LETTERA SIGN & ELECT EPA ID: NYP004671046 EPA ID: NYD001345529	***1209 BRONX RIVER AVE***	***SSE 0 - 1/8 (0.094 mi.)***	***H42***	***104***
NYCSCA - PUBLIC SCHO EPA ID: NY0000375709	***1001 JENNINGS ST***	***W 0 - 1/8 (0.098 mi.)***	***L46***	***114***
CON EDISON EPA ID: NYP004786695	1524 LONGFELLOW AVE	NW 0 - 1/8 (0.104 mi.)	E51	125
CON EDISON EPA ID: NYP004762779	1526 LONGFELLOW AVE	NW 0 - 1/8 (0.109 mi.)	E61	141
NYNEX EPA ID: NYP000913939	BRONX RIV RD & WESTC	SSE 0 - 1/8 (0.109 mi.)	H64	145
CON EDISON MANHOLE 2 EPA ID: NYP004246114	***BRONX RIVER AVE & CL***	***SSE 0 - 1/8 (0.109 mi.)***	***H66***	***147***
CON EDISON - MANHOLE EPA ID: NYP004921142	***1661 W FARMS RD***	***N 0 - 1/8 (0.112 mi.)***	***P67***	***149***
CON EDISION EPA ID: NYP004592275	1559 BOONE AV	NNW 0 - 1/8 (0.115 mi.)	N77	203
G M T TILE CORP EPA ID: NYD981179120	***1077 HOME ST***	***SSW 0 - 1/8 (0.120 mi.)***	***K78***	***204***
CON EDISON MANHOLE 2 EPA ID: NYP004223723	WESTCHESTER AVE & WH	SSW 0 - 1/8 (0.121 mi.)	Q79	208
CON EDISON EPA ID: NYP004604104	WESTCHESTER AVE & WH	SSW 0 - 1/8 (0.121 mi.)	Q80	209
NYC BD OF ED - PUBLI EPA ID: NYR000010553	***1434 LONGFELLOW AVE***	***WSW 0 - 1/8 (0.123 mi.)***	***S92***	***250***
GETTY SERVICE STATIO	***1185 BRONX RIVER AVE***	***S 0 - 1/8 (0.124 mi.)***	***T95***	***256***

EPA ID: NYD987002003				
CON EDISON EPA ID: NYP004725065	1000 FREEMAN ST	SW 0 - 1/8 (0.125 mi.)	U101	291
CON EDISON EPA ID: NYP004863870	1059 HOME ST	SW 1/8 - 1/4 (0.132 mi.)	K106	296
CON EDISON EPA ID: NYP004762522	1499 LONGFELLOW AVE	WNW 1/8 - 1/4 (0.133 mi.)	O110	302
CON EDISON EPA ID: NYP004788394	1499 LONGFELLOW	WNW 1/8 - 1/4 (0.133 mi.)	O113	306
VERIZON EPA ID: NYP000971580	WESTCHESTER AVE & HO	SSW 1/8 - 1/4 (0.136 mi.)	Q116	311
CON EDISON EPA ID: NYP004516092	E 173RD ST & WEST FA	NNE 1/8 - 1/4 (0.137 mi.)	P117	313
CON EDISON EPA ID: NYP004667457	W FARMS RD & E 173RD	NNE 1/8 - 1/4 (0.137 mi.)	P118	314
ALEX AUTO REPAIR SHO EPA ID: NYR000063396	***1006 E 173RD ST***	***N 1/8 - 1/4 (0.149 mi.)***	***W125***	***332***
CON EDISON EPA ID: NYP004534368	1252 EVERGREEN AVE	ESE 1/8 - 1/4 (0.151 mi.)	X126	335
CON EDISON EPA ID: NYP004795753	173RD ST & BOONE AVE	N 1/8 - 1/4 (0.152 mi.)	W128	337
MANHOLE 17607 EPA ID: NYP004098471	***1431 LONGFELLOW AVE***	***WSW 1/8 - 1/4 (0.153 mi.)***	***S131***	***341***
CON EDISON EPA ID: NYP004656567	1236 EVERGREEN AV	SE 1/8 - 1/4 (0.156 mi.)	X133	346
CON EDISON EPA ID: NYP004638474	1236 EVERGREEN AV	SE 1/8 - 1/4 (0.156 mi.)	X134	347
CON EDISON EPA ID: NYP004588950	1456 BRYANT AVE	W 1/8 - 1/4 (0.162 mi.)	Y138	354
CON EDISON EPA ID: NYP004685558	1661 BOONE AVENUE F/	N 1/8 - 1/4 (0.169 mi.)	W140	358
ADHESIVE PRODUCTS CO EPA ID: NYD001360031	***1660-1684 BOONE AVE***	***N 1/8 - 1/4 (0.171 mi.)***	***W145***	***377***
CON EDISON EPA ID: NYP004708434	E 172 ST & WHEELER A	ESE 1/8 - 1/4 (0.171 mi.)	AB146	384
NYNEX EPA ID: NYP000923318	172ND ST & WHEELER A	ESE 1/8 - 1/4 (0.171 mi.)	AB147	386
CON EDISON EPA ID: NYP004588968	1432 BRYANT AVE	WSW 1/8 - 1/4 (0.175 mi.)	150	389
CON EDISION EPA ID: NYP004592804	1674 BOONE AV	N 1/8 - 1/4 (0.177 mi.)	W152	391
CON EDISON EPA ID: NYP004612487	1715 WEST FARM RD	NNE 1/8 - 1/4 (0.177 mi.)	153	393
CON EDISON EPA ID: NYP004676391	1278 WESTCHESTER AVE	SSW 1/8 - 1/4 (0.177 mi.)	AE155	396
CON EDISON	1214 EVERGREEN AVE	SE 1/8 - 1/4 (0.179 mi.)	AA156	397

EPA ID: NYP004567970				
CON EDISON EPA ID: NYP004659819	LONGFELLOW AV &	NNW 1/8 - 1/4 (0.180 mi.)	W160	403
CON EDISON EPA ID: NYP004593901	1548 BRYANT AV	NNW 1/8 - 1/4 (0.180 mi.)	Z161	404
CON EDISON EPA ID: NYP004775029	1491 BRYANT AVE	WNW 1/8 - 1/4 (0.181 mi.)	Y164	408
CON ED EPA ID: NYP004775045	1481 BRYANT AVE	WNW 1/8 - 1/4 (0.182 mi.)	Y165	410
MTA NYCT - 1142 BRON EPA ID: NYR000100313	***1142 BRONX RIVER AVE***	***S 1/8 - 1/4 (0.182 mi.)***	***AF169***	***416***
CON EDISON EPA ID: NYP004850059	1465 BRYANT AVE	W 1/8 - 1/4 (0.184 mi.)	Y171	421
CON EDISON EPA ID: NYP004656542	1350 BRONX RIVER AV	ENE 1/8 - 1/4 (0.186 mi.)	AG173	425
CON EDISON EPA ID: NYP004661518	1350 BRONX RIVER AV	ENE 1/8 - 1/4 (0.186 mi.)	AG174	426
J KAUFMAN IRON WORKS EPA ID: NYR000100537	***1685 BOONE AVE***	***N 1/8 - 1/4 (0.188 mi.)***	***W176***	***430***
CON EDISON EPA ID: NYP004623005	1558 BRYANT AV	NNW 1/8 - 1/4 (0.188 mi.)	AH178	436
CON EDISON EPA ID: NYP004643268	1327 ELDER AVE	E 1/8 - 1/4 (0.189 mi.)	AI179	437
CON EDISON EPA ID: NYP004681326	1455 BRYANT AVE	W 1/8 - 1/4 (0.189 mi.)	Y180	439
CON EDISON EPA ID: NYP004662086	1323 ELDER AV	E 1/8 - 1/4 (0.190 mi.)	AI181	440
COLGATE TOWERS EPA ID: NYR000135434	***1156 COLGATE AVE - A***	***SSE 1/8 - 1/4 (0.193 mi.)***	***AC182***	***442***
CON EDISON EPA ID: NYP004702650	1483 WESTCHESTER AV	SE 1/8 - 1/4 (0.194 mi.)	AJ184	447
CON EDISON EPA ID: NYP004594099	1670 LONG FELLOW AV	N 1/8 - 1/4 (0.199 mi.)	AL192	461
CON EDISON EPA ID: NYP004803433	1403 BRYANT AVE	WSW 1/8 - 1/4 (0.214 mi.)	AN203	482
CON EDISON EPA ID: NYP004818714	W 172ND ST & ELDER A	E 1/8 - 1/4 (0.217 mi.)	AB209	490
NYC DEPT OF EDUCATIO EPA ID: NY0000903526	***1550 VYSE AVE***	***NW 1/8 - 1/4 (0.218 mi.)***	***AO210***	***492***
GETTY PETROLEUM CORP EPA ID: NYR000047670	***1720 BOONE AVE & E 1***	***N 1/8 - 1/4 (0.221 mi.)***	***AP212***	***499***
CON EDISON EPA ID: NYP004593828	***1146 BRYANT AVE***	***SW 1/8 - 1/4 (0.221 mi.)***	***AK213***	***504***
CON EDISON EPA ID: NYP004580619	1175 BRYANT AVE	SW 1/8 - 1/4 (0.224 mi.)	AD215	508
CON EDISON	1175 BRYANT AV	SW 1/8 - 1/4 (0.224 mi.)	AD216	510

EPA ID: NYP004705059				
CONSOLIDATED EDISON EPA ID: NYP004117529	1249 ELDER AVE SB193	ESE 1/8 - 1/4 (0.226 mi.)	221	519
NYCDEP DERTA EPA ID: NYP000974202	1120 BRONX RIVER AVE	S 1/8 - 1/4 (0.229 mi.)	AF223	523
NYCT - WHITLOCK AVEN EPA ID: NYR000121715	***WHITLOCK AVE & LOWEL***	***SSW 1/8 - 1/4 (0.232 mi.)***	***225***	***527***
CON EDISON - MANHOLE EPA ID: NYP004941678	1341 BOYNTON AVE	ENE 1/8 - 1/4 (0.237 mi.)	AR227	538
CON EDISON EPA ID: NYP004635819	1123 BRONX RIVER AVE	S 1/8 - 1/4 (0.237 mi.)	AQ229	541
CON EDISON EPA ID: NYP004634004	1117 BRONX RIVER AVE	S 1/8 - 1/4 (0.243 mi.)	AQ235	554
CON EDISON EPA ID: NYP004580494	1143 BRYANT AVE	SW 1/8 - 1/4 (0.243 mi.)	AK236	556
CON EDISON EPA ID: NYP004592374	1565 VYSE AV	NW 1/8 - 1/4 (0.244 mi.)	AO238	559
CON EDISON EPA ID: NYP004672010	1571 VYSE AVE	NW 1/8 - 1/4 (0.245 mi.)	AO240	563
CON EDISON EPA ID: NYP004678058	1137 BRYANT ST	SW 1/8 - 1/4 (0.248 mi.)	AV243	569
CON EDISON - TRANSFO EPA ID: NYP004973465	***1745 W FARMS RD***	***NNE 1/8 - 1/4 (0.249 mi.)***	***244***	***570***
CON EDISON - SERVICE EPA ID: NYP005088030	1511 WESTCHESTER AVE	SE 1/8 - 1/4 (0.250 mi.)	AU245	572

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2017 has revealed that there are 12 NJ MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYCHA - WEST FARMS R EPA Id: NYR000151274	***1323 W FARMS RD***	***SW 0 - 1/8 (0.086 mi.)***	***I35***	***78***
CON EDISON EPA Id: NYP004786695	1524 LONGFELLOW AVE	NW 0 - 1/8 (0.104 mi.)	E49	122
CON EDISON EPA Id: NYP004762779	1526 LONGFELLOW AVE	NW 0 - 1/8 (0.109 mi.)	E62	143
CON EDISON EPA Id: NYP004725065	1000 FREEMAN ST	SW 0 - 1/8 (0.125 mi.)	U102	292
CON EDISON EPA Id: NYP004762522	1499 LONGFELLOW AVE	WNW 1/8 - 1/4 (0.133 mi.)	O109	301
CON EDISON EPA Id: NYP004788394	1499 LONGFELLOW	WNW 1/8 - 1/4 (0.133 mi.)	O112	304
CON EDISON EPA Id: NYP004795753	173RD ST & BOONE AVE	N 1/8 - 1/4 (0.152 mi.)	W129	339
CON EDISON	1491 BRYANT AVE	WNW 1/8 - 1/4 (0.181 mi.)	Y162	406

EPA Id: NYP004775029				
CON EDISON EPA Id: NYP004775045	1481 BRYANT AVE	WNW 1/8 - 1/4 (0.182 mi.)	Y167	412
CON EDISON EPA Id: NYP004803433	1403 BRYANT AVE	WSW 1/8 - 1/4 (0.214 mi.)	AN202	481
CON EDISON EPA Id: NYP004818714	W 172 ST & ELDER AVE	E 1/8 - 1/4 (0.217 mi.)	AB208	489
NYCT - WHITLOCK AVEN EPA Id: NYR000121715	***WHITLOCK AVE & LOWEL***	***SSW 1/8 - 1/4 (0.232 mi.)***	***225***	***527***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON - EAST 17	WEST FARMS RD. AND B	NE 1/8 - 1/4 (0.131 mi.)	105	296

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 6 EDR Hist Auto sites within approximately 0.125 miles of the target property.

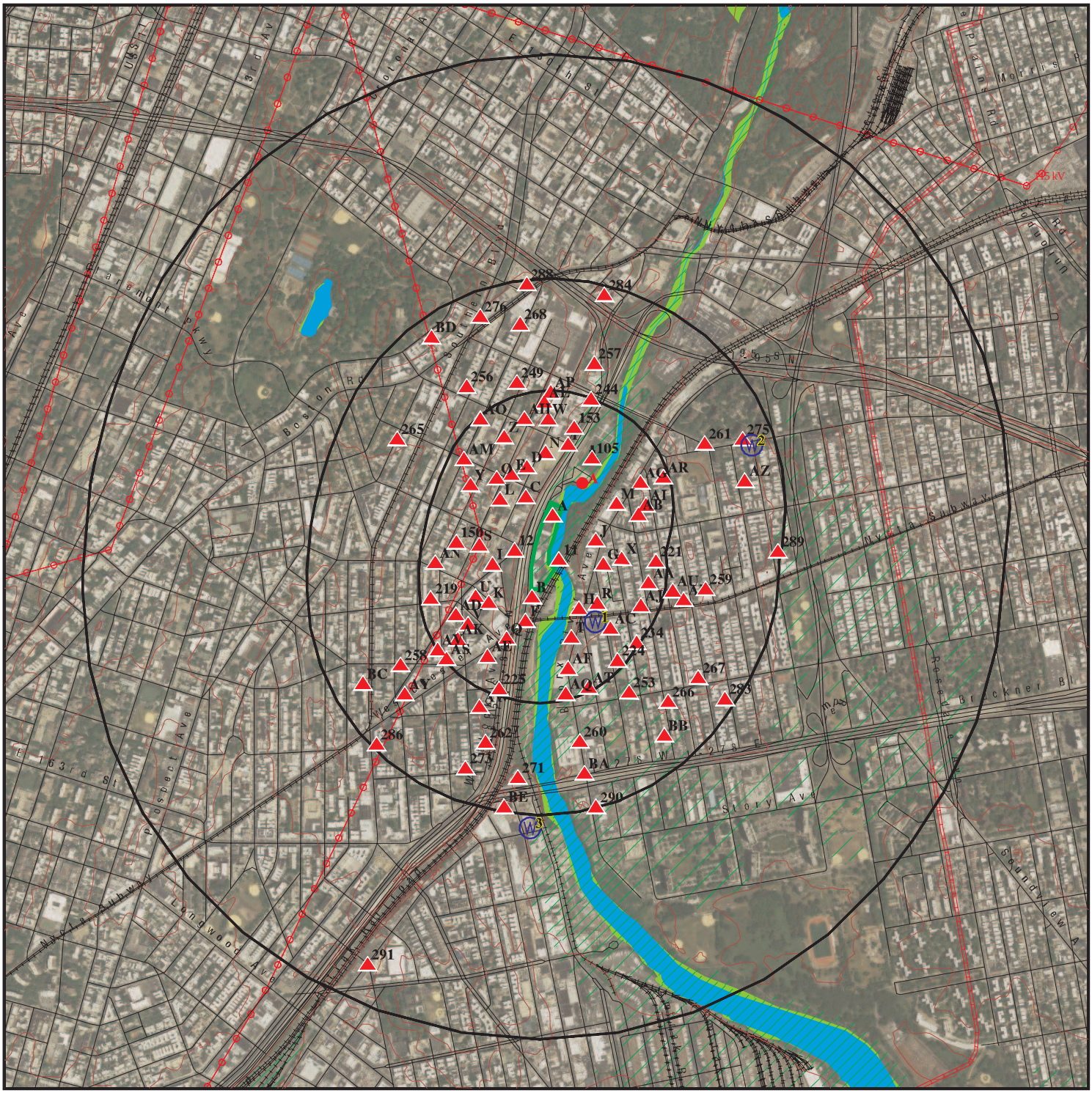
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXPRESSWAY SERVICE S	1476 SHERIDAN EXPRES	SSW 0 - 1/8 (0.016 mi.)	B9	29
EXPRESSWAY SERVICE S	1355 WEST FARMS RD	SW 0 - 1/8 (0.043 mi.)	12	33
J & L AUTO SERVICE	1471 W FARMS RD	W 0 - 1/8 (0.047 mi.)	C15	42
ESTEVEN SERVICE STAT	1441 WESTCHESTER AVE	SSE 0 - 1/8 (0.121 mi.)	R84	217
MACHADO SERVICE STAT	1189 BRONX RIVER AV	S 0 - 1/8 (0.123 mi.)	T93	255
MATEO MANUEL	1185 BRONX RIVER AVE	S 0 - 1/8 (0.124 mi.)	T97	263

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 6 records.

Site Name	Database(s)
CE - E. 173RD ST. - BRONX WORKS	NY ENG CONTROLS, NY INST CONTROL, NY VCP
CE - ZEREGA AVE. STATION	NY SHWS
ROSEDALE CLEANERS	NY DRYCLEANERS
AT WEBSTER AVE	NY LTANKS
NYC POLICE RANGE RODMAN'S NECK	NY LTANKS
CE - ZEREGA AVE. STATION	NY VCP

OVERVIEW MAP - 05468323.2R

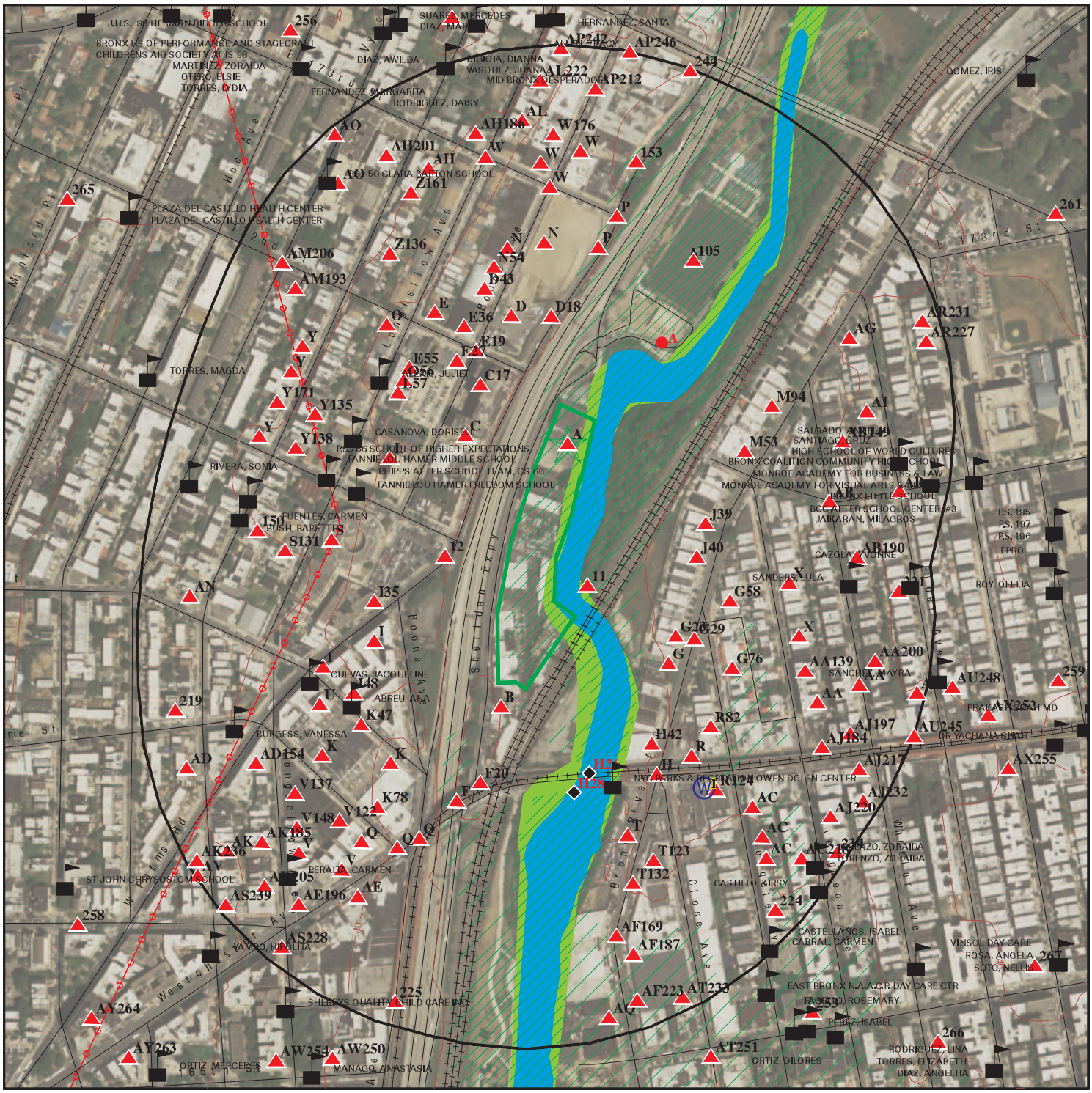


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	1428, 1458 ,1460, 1480 Sheridan Expressway	CLIENT:	CDM Smith, Inc.
ADDRESS:	1428, 1458 ,1460, 1480 Sheridan Expressway Bronx NY 10459	CONTACT:	Emily Wong
		INQUIRY #:	05468323.2r
LAT/LONG:	40.831628 / 73.884168	DATE:	October 30, 2018 11:35 am

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DETAIL MAP - 05468323.2R



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	1428, 1458 ,1460, 1480 Sheridan Expressway	CLIENT:	CDM Smith, Inc.
ADDRESS:	1428, 1458 ,1460, 1480 Sheridan Expressway Bronx NY 10459	CONTACT:	Emily Wong
LAT/LONG:	40.831628 / 73.884168	INQUIRY #:	05468323.2r
		DATE:	October 30, 2018 11:41 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		3	1	NR	NR	NR	4
RCRA-CESQG	0.250	1	2	3	NR	NR	NR	6
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
NY SHWS	1.000		0	0	1	0	NR	1
State and tribal landfill and/or solid waste disposal site lists								
NY SWF/LF	0.500	1	0	1	3	NR	NR	5
State and tribal leaking storage tank lists								
INDIAN LUST	0.500		0	0	0	NR	NR	0
NY LTANKS	0.500	1	4	7	33	NR	NR	45
NY HIST LTANKS	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY UST	0.250	1	8	8	NR	NR	NR	17
NY CBS UST	0.250		0	1	NR	NR	NR	1
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY CBS	0.250	1	1	1	NR	NR	NR	3
NY MOSF	0.500		0	0	0	NR	NR	0
NY AST	0.250	2	14	41	NR	NR	NR	57
NY CBS AST	0.250	1	0	0	NR	NR	NR	1
NY MOSF AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
NY TANKS	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
NY RES DECL	0.125		2	NR	NR	NR	NR	2
NY ENG CONTROLS	0.500		0	0	0	NR	NR	0
NY INST CONTROL	0.500		0	0	1	NR	NR	1
State and tribal voluntary cleanup sites								
NY VCP	0.500		2	0	3	NR	NR	5
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
NY BROWNFIELDS	0.500		0	0	3	NR	NR	3
NY ERP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
NY SWRCY	0.500		0	0	1	NR	NR	1
NY SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
NY HIST UST	0.250		0	0	NR	NR	NR	0
NY HIST AST	TP		NR	NR	NR	NR	NR	0
Local Land Records								
NY LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125		34	NR	NR	NR	NR	34
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		12	22	NR	NR	NR	34
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
NY AIRS	TP		NR	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NY DRYCLEANERS	0.250		0	2	NR	NR	NR	2
NY E DESIGNATION	0.125		3	NR	NR	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY Financial Assurance	TP		NR	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY MANIFEST	0.250	1	22	57	NR	NR	NR	80
NJ MANIFEST	0.250		4	8	NR	NR	NR	12
NY SPDES	TP	1	NR	NR	NR	NR	NR	1
NY VAPOR REOPENED	0.500		0	0	0	NR	NR	0
NY UIC	TP		NR	NR	NR	NR	NR	0
NY COOLING TOWERS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	1	0	0	NR	1
EDR Hist Auto	0.125		6	NR	NR	NR	NR	6
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
NY RGA HWS	TP		NR	NR	NR	NR	NR	0
NY RGA LF	TP	1	NR	NR	NR	NR	NR	1
- Totals --		14	117	154	45	1	0	331

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

LKQ HUNTS POINT AUTO PARTS
1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459

NY AST **A100343938**
N/A

Site 1 of 8 in cluster A

Actual:
8 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-611085
Program Type:	PBS
UTM X:	594082.30140
UTM Y:	4520678.51867
Expiration Date:	N/A
Site Type:	Other

Affiliation Records:

Site Id:	413846
Affiliation Type:	Facility Owner
Company Name:	LKQ HUNTS POINT AUTO PARTS CORP.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	500 WEST MADISON ST. STE 2800
Address2:	Not reported
City:	CHICAGO
State:	IL
Zip Code:	60661
Country Code:	001
Phone:	(312) 621-2729
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-04-26

Site Id:	413846
Affiliation Type:	Mail Contact
Company Name:	LKQ HUNTS POINT AUTO PARTS
Contact Type:	Not reported
Contact Name:	LOUIS SCARNATI
Address1:	1480 SHERIDAN EXPRESSWAY
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(718) 589-4444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-05-20

Site Id:	413846
Affiliation Type:	Facility Operator
Company Name:	LKQ HUNTS POINT AUTO PARTS CORP.
Contact Type:	Not reported
Contact Name:	LOUIS SCARNATI
Address1:	Not reported
Address2:	Not reported
City:	Not reported

LKQ HUNTS POINT AUTO PARTS (Continued) **A100343938**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-4444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-04-26

Site Id:	413846
Affiliation Type:	Emergency Contact
Company Name:	LKQ HUNTS POINT AUTO PARTS CORP.
Contact Type:	Not reported
Contact Name:	ANTHONY MASI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 776-5936
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-05-20

Tank Info:

Tank Number:	001
Tank Id:	228444
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
B01 - Tank External Protection - Painted/Asphalt Coating
C00 - Pipe Location - No Piping
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
G02 - Tank Secondary Containment - Vault (w/access)
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	03/26/2012
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014

LKQ HUNTS POINT AUTO PARTS (Continued) **A100343938**

Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

Tank Number:	002
Tank Id:	244397
Material Code:	0015
Common Name of Substance:	Motor Oil

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
G02 - Tank Secondary Containment - Vault (w/access)
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	03/26/2012
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	motor oil

Tank Number:	003
Tank Id:	248048

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction Dispenser
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
B01 - Tank External Protection - Painted/Asphalt Coating
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
K02 - Spill Prevention - Transfer Station Containment

LKQ HUNTS POINT AUTO PARTS (Continued) **A100343938**

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/2012
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

Tank Number:	004
Tank Id:	244399
Material Code:	0021
Common Name of Substance:	Transmission Fluid

Equipment Records:

J02 - Dispenser - Suction Dispenser
I01 - Overfill - Float Vent Valve
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
E00 - Piping Secondary Containment - None
A01 - Tank Internal Protection - Epoxy Liner
G02 - Tank Secondary Containment - Vault (w/access)
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	03/26/2012
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/29/2013
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	transmission fluid

Tank Number:	OO3
Tank Id:	244398
Material Code:	0010
Common Name of Substance:	Hydraulic Oil

Equipment Records:

I01 - Overfill - Float Vent Valve

LKQ HUNTS POINT AUTO PARTS (Continued) **A100343938**

B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
J02 - Dispenser - Suction Dispenser
A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
G02 - Tank Secondary Containment - Vault (w/access)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	03/26/2012
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/29/2013
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	hydraulic oil

A2 **LKQ HUNTS POINT AUTO PARTS CORP** **NY RGA LF** **S114958672**
Target **1480 SHERIDAN EXP** **N/A**
Property **BRONX, NY**

Site 2 of 8 in cluster A

Actual: **8 ft.**

RGA LF:

2012	LKQ HUNTS POINT AUTO PARTS CORP	1480 SHERIDAN EXP
2011	LKQ HUNTS POINT AUTO PARTS CORP	1480 SHERIDAN EXP
2010	LKQ HUNTS POINT AUTO PARTS CORP	1480 SHERIDAN EXP
2009	LKQ HUNTS POINT AUTO PARTS CORP	1480 SHERIDAN EXP
2008	LKQ HUNTS POINT AUTO PARTS CORP	1480 SHERIDAN EXP
2007	LKQ HUNTS POINT AUTO PARTS CORP	1480 SHERIDAN EXP
2006	LKQ HUNTS POINT AUTO PARTS CORP	1480 SHERIDAN EXP

A3 **HUNTS POINT AUTO WRECKERS** **RCRA-CESQG** **1000420701**
Target **1480 SHERIDAN EXPWY** **NY LTANKS** **NYD083059899**
Property **BRONX, NY 10473** **NY MANIFEST**

Site 3 of 8 in cluster A

Actual: **8 ft.**

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	HUNTS POINT AUTO WRECKERS
Facility address:	1480 SHERIDAN EXPWY BRONX, NY 10473
EPA ID:	NYD083059899
Mailing address:	SHERIDAN EXPWY BRONX, NY 10473
Contact:	Not reported
Contact address:	SHERIDAN EXPWY BRONX, NY 10473

HUNTS POINT AUTO WRECKERS (Continued) **1000420701**

Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	JOSEPH SIMONE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	JOSEPH SIMONE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

HUNTS POINT AUTO WRECKERS (Continued) **1000420701**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: HUNTS POINT AUTO WRECKERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/08/1999
Site name: HUNTS POINT AUTO WRECKERS
Classification: Not a generator, verified

Date form received by agency: 05/22/1987
Site name: HUNTS POINT AUTO WRECKERS
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

LTANKS:
Facility ID: 9702732
Site ID: 83758
Closed Date: 2005-11-28
Spill Number: 9702732
Spill Date: 1997-06-03
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: B3
Cleanup Ceased: Not reported
SWIS: 0301
Investigator: RCEDWARD
Referred To: Not reported
Reported to Dept: 1997-06-03
CID: 267
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: True
Remediation Phase: 0

HUNTS POINT AUTO WRECKERS (Continued) **1000420701**

Date Entered In Computer:	1997-06-03
Spill Record Last Update:	2006-01-31
Spiller Name:	JOE SIMONE
Spiller Company:	HUNTS POINT AUTO PARTS
Spiller Address:	1480 SHERDIAN EXPRESSWAY
Spiller County:	001
Spiller Contact:	JOE SIMONE
Spiller Phone:	(718) 893-0303
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	77056
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL 3x550. Closed with water more than 5 years ago. FD required 10 year test because they were still listed as active. All 3 tanks (2 gas & 1 diesel) failed. 4/12/04-Vought-Spill transferred from Tibbe to Rommel as per Rommel. 11/28/05 -Edwards - per file - Tanks removed. Remediation report and analytical results submitted to DEC 8/97."
Remarks:	"OLD TANKS WHICH WERE FILLED WITH WATER YEARS AGO WERE BEING PRESSURE TESTED PER THE FIRE DEPT FOR TEN YEAR TEST TANKS ORIGINALLY WERE FOR DIESEL AND GASOILNE"

All Materials:

Site ID:	83758
Operable Unit ID:	1045460
Operable Unit:	01
Material ID:	335665
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	83758
Operable Unit ID:	1045460
Operable Unit:	01
Material ID:	335666
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

NY MANIFEST:

Country:	USA
EPA ID:	NYD083059899
Facility Status:	Not reported
Location Address 1:	1488 SHERIDAN EXPRESSWAY
Code:	BP
Location Address 2:	Not reported

HUNTS POINT AUTO WRECKERS (Continued) **1000420701**

Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10474
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD083059899
Mailing Name:	HUNTS POINT AUTO WRECKERS
Mailing Contact:	FABRIZZIO A.
Mailing Address 1:	1488 SHERIDAN EXPRESSWAY
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10474
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2125894444

NY MANIFEST:

Document ID:	NYC1913578
Manifest Status:	C
seq:	Not reported
Year:	1992
Trans1 State ID:	DL7754NY
Trans2 State ID:	Not reported
Generator Ship Date:	10/20/1992
Trans1 Recv Date:	10/20/1992
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/20/1992
Part A Recv Date:	/ /
Part B Recv Date:	10/30/1992
Generator EPA ID:	NYD083059899
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980785760
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00131
Units:	P - Pounds

HUNTS POINT AUTO WRECKERS (Continued) **1000420701**

Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

A4 **LKQ HUNTS POINT AUTO PARTS CORP** **NY SWF/LF** **S108145970**
Target **1480 SHERIDAN EXPY** **NY CBS** **N/A**
Property **BRONX, NY 10459** **NY SPDES**

Site 4 of 8 in cluster A

Actual:
8 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185894444
Owner Name:	LKQ Hunts Point Auto Parts Corp
Owner Type:	Private
Owner Address:	1480 Sheridan Exp
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 10459
Owner Email:	jracosta@LKQcorp.com
Owner Phone:	7185894444
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	[7085255]
Active:	No
East Coordinate:	593998
North Coordinate:	4520466
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

CBS:

CBS Number:	2-000383
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	594046.89405
UTMY:	4520448.82557

LKQ HUNTS POINT AUTO PARTS CORP (Continued) **S108145970**

SPDES:

Permit Number:	NYR00B428
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5015
State Water Body Name:	BRONX RIVER
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	40.829 / -73.884
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	TABS CONSULTING GROUP INC
Non-Gov Permit Street Address:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Permit Supplemental Location:	2 52ND ST, BOX B11
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11232
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Street Address:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Supplemental Location:	1480 SHERIDAN EXPY
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10459
State Water Body:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Permit Street Address:	1480 SHERIDAN EXPY
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BRONX
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10459
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Street Address:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Supplemental Location:	1480 SHERIDAN EXPY
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10459
State Water Body:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005

LKQ HUNTS POINT AUTO PARTS CORP (Continued) **S108145970**

Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Street Address:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Supplemental Location:	1480 SHERIDAN EXPY
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10459
State Water Body:	Not reported

A5 **MARINE BOILER & WELDING INC** **NY UST** **U001832697**
Target **1428 SHERIDAN EXPRESSWAY** **N/A**
Property **BRONX, NY 10459**

Site 5 of 8 in cluster A

Actual: 8 ft.

UST:

Id/Status:	2-097748 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	593975.30272
UTM Y:	4520275.08185
Site Type:	Other

Affiliation Records:

Site Id:	2807
Affiliation Type:	Facility Owner
Company Name:	HOLD CONTRACTING
Contact Type:	PRESIDENT
Contact Name:	WILLIAM FALCO
Address1:	1428 SHERIDAN EXPRESSWAY
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(718) 378-1900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-07-28

Site Id:	2807
Affiliation Type:	Mail Contact
Company Name:	MARINE BOILER & WELDING INC.
Contact Type:	Not reported
Contact Name:	MR. WILLIAM FALCO
Address1:	1428 SHERIDAN EXPRESSWAY
Address2:	Not reported
City:	BRONX
State:	NY

MARINE BOILER & WELDING INC (Continued) **U001832697**

Zip Code:	10459
Country Code:	001
Phone:	(718) 378-1900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-07-28

Site Id:	2807
Affiliation Type:	Facility Operator
Company Name:	MARINE BOILER & WELDING INC
Contact Type:	Not reported
Contact Name:	WILLIAM FALCO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 378-1900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-07-28

Site Id:	2807
Affiliation Type:	Emergency Contact
Company Name:	HOLD CONTRACTING
Contact Type:	Not reported
Contact Name:	WILLIAM FALCO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 725-2519
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-07-28

Tank Info:

Tank Number:	00I
Tank ID:	5142
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	12/01/1959
Date Tank Closed:	02/09/1999
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

MARINE BOILER & WELDING INC (Continued) **U001832697**

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	0II
Tank ID:	5143
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	2000
Install Date:	03/01/1975
Date Tank Closed:	07/06/2010
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	21
Date Test:	05/26/2010
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	BKFALVEY
Last Modified:	04/14/2017

Equipment Records:

F08 - Pipe External Protection - Retrofitted Impressed Current
L00 - Piping Leak Detection - None
A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
I00 - Overfill - None
K01 - Spill Prevention - Catch Basin
D02 - Pipe Type - Galvanized Steel
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B08 - Tank External Protection - Retrofitted Impressed Current
H05 - Tank Leak Detection - In-Tank System (ATG)

A6 **LKQ HUNTS POINT AUTO PARTS CORP** **NY CBS AST** **S105126289**
Target **1480 SHERIDAN EXPRESSWAY** **N/A**
Property **BRONX, NY 10459**

Site 6 of 8 in cluster A

Actual:
8 ft.

CBS AST:

CBS Number:	2-000383
ICS Number:	Not reported
PBS Number:	Not reported
MOSF Number:	Not reported
SPDES Number:	Not reported
Facility Status:	IN SERVICE
Facility Type:	I
Telephone:	(718) 589-4444
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	08/24/2003
Total Capacity of All Active Tanks(gal):	300
Operator:	LOUIS SCARNATI
Emergency Contact:	ANTHONY MASI
Emergency Phone:	(914) 776-5936
Owner Name:	LKQ HUNTS POINT AUTO PARTS CORP
Owner Address:	120 NORTH LASALLE ST. SUITE 9900
Owner City,St,Zip:	CHICAGO, IL 60602-2416
Owner Telephone:	(312) 621-2729
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	LKQ HUNTS POINT AUTO PARTS
Mail Contact Addr:	1480 SHERIDAN EXPRESSWAY
Mail Contact Addr2:	Not reported
Mail Contact Contact:	LOUIS SCARNATI
Mail Contact City,St,Zip:	BRONX, NY 10459
Mail Phone:	(718) 589-4444

Tank Id:	3
CAS Number:	107211
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	01/01
Tank Closed:	Not reported
Capacity (Gal):	300
Chemical:	Ethylene glycol
Tank Location:	Indoors, Aboveground
Tank Type:	Steel/carbon steel
Total Tanks:	1
Tank Secret:	False
Tank Secondary Containment:	Double-Walled Tank
Tank Error Status:	No Missing Data
Date Entered:	08/24/2001
Certified Date:	08/24/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None
Pipe Location:	None
Pipe Type:	0
Pipe Internal:	None
Pipe External:	None
Pipe Flag:	None

LKQ HUNTS POINT AUTO PARTS CORP (Continued) **S105126289**

Leak Detection:	Concrete Pad w/channels
Overfill Protection:	14
Haz Percent:	100
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	Not reported
Is It There:	False
Delinquent:	False
Date Expired:	Not reported
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	False
Pre-Printed Renewal App Last Printed:	/ /

A7 **LKQ HUNTS POINT AUTO PARTS CORP** **NY AST** **A100177768**
Target **1480 SHERIDAN EXPRESSWAY** **N/A**
Property **BRONX, NY 10459**

Site 7 of 8 in cluster A

Actual:
8 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-233366
Program Type:	PBS
UTM X:	593996.91942
UTM Y:	4520465.21341
Expiration Date:	N/A
Site Type:	Other

Affiliation Records:

Site Id:	8488
Affiliation Type:	Facility Owner
Company Name:	LKQ HUNTS POINT AUTO PARTS CORP
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	120 NORTH LASALLE STREET, SUITE 9900
Address2:	Not reported
City:	CHICAGO
State:	IL
Zip Code:	60602-2416
Country Code:	001
Phone:	(718) 589-4444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	HDDUPIGN
Date Last Modified:	2015-12-17

Site Id:	8488
Affiliation Type:	Mail Contact
Company Name:	LKQ HUNTS POINT AUTO PARTS CORP
Contact Type:	Not reported
Contact Name:	LOUIS SCARNATI

LKQ HUNTS POINT AUTO PARTS CORP (Continued) **A100177768**

Address1:	1480 SHERIDAN EXPRESSWAY
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(718) 589-4444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	8488
Affiliation Type:	Facility Operator
Company Name:	LKQ HUNTS POINT AUTO PARTS CORP
Contact Type:	Not reported
Contact Name:	LOUIS SCARNATI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-4444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BKFALVEY
Date Last Modified:	2011-11-14

Site Id:	8488
Affiliation Type:	Emergency Contact
Company Name:	LKQ HUNTS POINT AUTO PARTS CORP
Contact Type:	Not reported
Contact Name:	ANTHONY MASI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 440-6910
EMail:	Not reported
Fax Number:	Not reported
Modified By:	HDDUPIGN
Date Last Modified:	2015-12-17

Tank Info:

Tank Number:	#1
Tank Id:	10988
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction Dispenser

LKQ HUNTS POINT AUTO PARTS CORP (Continued) **A100177768**

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/2001
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	diesel

Tank Number:	#2
Tank Id:	10989
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
J02 - Dispenser - Suction Dispenser

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/2001
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

LKQ HUNTS POINT AUTO PARTS CORP (Continued) **A100177768**

Tank Number: #4
Tank Id: 10990
Material Code: 0009
Common Name of Substance: Gasoline

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 01/01/2001
Capacity Gallons: 249
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 03/28/2014
Register: True
Modified By: NRLOMBAR
Last Modified: 04/14/2017
Material Name: gasoline

Tank Number: #5
Tank Id: 60461
Material Code: 0009
Common Name of Substance: Gasoline

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 01/01/2001
Capacity Gallons: 249
Tightness Test Method: NN
Date Test: Not reported

LKQ HUNTS POINT AUTO PARTS CORP (Continued) **A100177768**

Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	gasoline
Tank Number:	6
Tank Id:	260042

Equipment Records:

D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	1
Tank Type:	Galvanized Steel Alloy
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	04/01/2014
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	HDDUPIGN
Last Modified:	04/14/2017
Material Name:	diesel

A8 **LKQ HUNTS POINT AUTO PARTS** **US AIRS** **1006199823**
Target **1480 SHERIDAN EXPRESSWAY** **FINDS** **N/A**
Property **BRONX, NY 10459** **ECHO**

Site 8 of 8 in cluster A

Actual:
8 ft.

US AIRS MINOR:

Envid:	1006199823
Region Code:	02
Programmatic ID:	AIR NY0000002600500852
Facility Registry ID:	110009001793
D and B Number:	Not reported
Primary SIC Code:	5015
NAICS Code:	999999
Default Air Classification Code:	MIN
Facility Type of Ownership Code:	POF
Air CMS Category Code:	Not reported
HPV Status:	Not reported

LKQ HUNTS POINT AUTO PARTS (Continued) **1006199823**

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR NY0000002600500852
Facility Registry ID: 110009001793
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Stratospheric Ozone Protection
Activity Date: 1996-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

US AIRS MINOR:
Envid: 1006199823
Region Code: 02
Programmatic ID: AIR NY0000002600500852
Facility Registry ID: 110009001793
D and B Number: Not reported
Primary SIC Code: 5015
NAICS Code: 999999
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR NY0000002600500852
Facility Registry ID: 110009001793
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Stratospheric Ozone Protection
Activity Date: 1996-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

FINDS:

Registry ID: 110009001793

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V

LKQ HUNTS POINT AUTO PARTS (Continued) **1006199823**

of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

AIR MINOR

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1006199823
Registry ID:	110009001793
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009001793

B9 **EXPRESSWAY SERVICE STATION** **EDR Hist Auto** **1020744907**
SSW **1476 SHERIDAN EXPRESSWAY** **N/A**
< 1/8 **BRONX, NY 10463**
0.016 mi.
85 ft. **Site 1 of 2 in cluster B**

Relative: EDR Hist Auto
Higher

Actual:
18 ft.

Year:	Name:	Type:
1980	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1982	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1983	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1985	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1986	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1987	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1988	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1989	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1996	ON POINT AUTO CENTER	General Automotive Repair Shops
1997	ON POINT AUTO CENTER	General Automotive Repair Shops
2008	BBA EUROTECH CORP	Automotive Repair Shops, NEC
2010	1476 AAA AUTOMOBILE INC	General Automotive Repair Shops
2011	1476 AAA AUTOMOBILE INC	General Automotive Repair Shops
2012	1476 AAA AUTOMOBILE INC	General Automotive Repair Shops
2013	1476 AAA AUTOMOBILE INC	General Automotive Repair Shops

EXPRESSWAY SERVICE STATION (Continued) **1020744907**

2014 1476 AAA AUTOMOBILE INC General Automotive Repair Shops

B10 **SHERIDAN AUTO REPAIRS INC.** **NY AST** **A100360418**
SSW **1476 SHERIDAN EXPRESSWAY** **N/A**
< 1/8 **BRONX, NY 10459**
0.016 mi.
85 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
18 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-611774
Program Type:	PBS
UTM X:	594006.83829
UTM Y:	4520377.44121
Expiration Date:	03/13/2017
Site Type:	Auto Service/Repair (No Gasoline Sales)

Affiliation Records:

Site Id:	461893
Affiliation Type:	Facility Owner
Company Name:	FELIX LOPEZ-ALVAREZ
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	84 WEST 181ST STREET
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10453
Country Code:	001
Phone:	(646) 542-7819
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-03-13

Site Id:	461893
Affiliation Type:	Mail Contact
Company Name:	UNITED AUTO MERCHANTS ASSOCATION
Contact Type:	Not reported
Contact Name:	PEDRO J. ESTEVEZ
Address1:	14 WEST 170TH STREET
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10452
Country Code:	001
Phone:	(347) 590-1142
EMail:	UAMA07@GMAIL.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-03-13

Site Id:	461893
Affiliation Type:	Facility Operator
Company Name:	SHERIDAN AUTO REPAIRS INC.
Contact Type:	Not reported

SHERIDAN AUTO REPAIRS INC. (Continued) **A100360418**

Contact Name:	FELIX LOPEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 364-1031
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-03-13

Site Id:	461893
Affiliation Type:	Emergency Contact
Company Name:	FELIX LOPEZ-ALVAREZ
Contact Type:	Not reported
Contact Name:	FELIX LOPEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(646) 542-789
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-03-13

Tank Info:

Tank Number:	023
Tank Id:	243198
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
I01 - Overfill - Float Vent Valve
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	07/14/2011
Capacity Gallons:	55

SHERIDAN AUTO REPAIRS INC. (Continued) **A100360418**

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

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11 **BRONX RIVER** **NY Spills** **S103273668**
South **EAST 172ND ST/WESTCHESTER** **N/A**
< 1/8 **BRONX, NY**
0.023 mi.
119 ft.

Relative:
Higher

Actual:
8 ft.

SPILLS:

Facility ID:	9800775
Facility Type:	ER
Spill Number:	9800775
DER Facility ID:	247308
Site ID:	306169
DEC Region:	2
Closed Date:	2003-02-12
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	1998-04-17
Investigator:	KGHALE
Referred To:	Not reported
Reported to Dept:	1998-04-17
CID:	281
Water Affected:	BRONX RIVER
Spill Source:	Unknown
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-04-17
Spill Record Last Update:	2003-02-13
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	SOLLIN
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was HALE 02/12/2003-Closed Due To The Nature / Extent Of The Spill Report."
Remarks:	"UNKNOWN MATERIAL FOUND SPILLED IN ABOVE LOCATION. FIRE DEPT ON SCENE AND ARE TRYING TO DETERMINE MATERIAL AND CAUSE OF SPILL. REQUEST CALL BACK FROM DEC ASAP."

All Materials:

Site ID:	306169
Operable Unit ID:	1058253
Operable Unit:	01

BRONX RIVER (Continued) **S103273668**

Material ID:	322723
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

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12 **EXPRESSWAY SERVICE STATION** **EDR Hist Auto** **1020610133**
SW **1355 WEST FARMS RD** **N/A**
< 1/8 **BRONX, NY 10459**
0.043 mi.
228 ft.

Relative: EDR Hist Auto
Higher

Actual: **21 ft.**

Year:	Name:	Type:
1969	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1970	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1971	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1972	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1973	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1974	EXPRESSWAY SERVICE STATION	Gasoline Service Stations
1975	EXPRESSWAY SERVICE STATION	Gasoline Service Stations

C13 **J & L AUTO SEV** **NY UST** **U001836332**
West **1471 W FARMS RD** **N/A**
< 1/8 **NEW YORK, NY 10460**
0.047 mi.
248 ft. **Site 1 of 5 in cluster C**

Relative: UST:
Higher

Actual: **26 ft.**

Id/Status:	2-259772 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	594019.27529
UTM Y:	4520670.40451
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	10816
Affiliation Type:	Facility Owner
Company Name:	ESTATE OF LOUIS ROMANO
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1481 W FARMS RD
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(212) 328-8528

J & L AUTO SEV (Continued) **U001836332**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	10816
Affiliation Type:	Mail Contact
Company Name:	JO-ANN UBERTINI
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1481 W FARMS RD
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(212) 328-8528
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	10816
Affiliation Type:	Facility Operator
Company Name:	J & L AUTO SEV
Contact Type:	Not reported
Contact Name:	JO-ANN UBERTINI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-8528
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	10816
Affiliation Type:	Emergency Contact
Company Name:	ESTATE OF LOUIS ROMANO
Contact Type:	Not reported
Contact Name:	JO-ANN UBERTINI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-8528
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

J & L AUTO SEV (Continued) **U001836332**

Tank Info:

Tank Number:	001
Tank ID:	18160
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1964
Date Tank Closed:	03/26/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
G07 - Tank Secondary Containment - Excavation Liner

Tank Number:	002
Tank ID:	18161
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1964
Date Tank Closed:	03/26/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

G07 - Tank Secondary Containment - Excavation Liner
H00 - Tank Leak Detection - None
I00 - Overfill - None

J & L AUTO SEV (Continued) **U001836332**

J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number: 003
Tank ID: 18162
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

G07 - Tank Secondary Containment - Excavation Liner
H00 - Tank Leak Detection - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number: 004
Tank ID: 18163
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT

J & L AUTO SEV (Continued) **U001836332**

Last Modified: 04/14/2017

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
G07 - Tank Secondary Containment - Excavation Liner

Tank Number: 005
Tank ID: 18164
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

G07 - Tank Secondary Containment - Excavation Liner
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number: 006
Tank ID: 18165
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

J & L AUTO SEV (Continued) **U001836332**

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

G07 - Tank Secondary Containment - Excavation Liner
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
I00 - Overfill - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None

C14 **J & A SERVICE - CLOSED** **RCRA-CESQG 1007112495**
West **1471 W FARMS RD** **NY Spills NYR000115212**
< 1/8 **BRONX, NY 10460** **NY MANIFEST**
0.047 mi.
248 ft. **Site 2 of 5 in cluster C**

Relative:
Higher

Actual:
26 ft.

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: J & A SERVICE - CLOSED
Facility address: 1471 W FARMS RD
BRONX, NY 10460
EPA ID: NYR000115212
Mailing address: W FARMS RD
BRONX, NY 10460
Contact: ROSEMARIE TRALONGO
Contact address: W FARMS RD
BRONX, NY 10460
Contact country: US
Contact telephone: 516-227-0700
Contact email: Not reported
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: J & A SERVICE - CLOSED
Owner/operator address: W FARMS RD

J & A SERVICE - CLOSED (Continued) **1007112495**

BRONX, NY 10460
Owner/operator country: US
Owner/operator telephone: 516-227-0700
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/31/1979
Owner/Op end date: Not reported

Owner/operator name: ESTATE OF LOUIS ROMANO
Owner/operator address: W FARMS RD
BRONX, NY 10460
Owner/operator country: US
Owner/operator telephone: 516-227-0700
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/31/1979
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: J & A SERVICE - CLOSED
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/28/2003
Site name: J & A SERVICE - CLOSED
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE

J & A SERVICE - CLOSED (Continued) **1007112495**

MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

SPILLS:

Facility ID:	9913455
Facility Type:	ER
Spill Number:	9913455
DER Facility ID:	241756
Site ID:	298823
DEC Region:	2
Closed Date:	2003-07-10
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	2000-02-28
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	2000-02-28
CID:	257
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2000-02-28
Spill Record Last Update:	2003-07-10
Spiller Name:	Not reported
Spiller Company:	UNKNWON
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	JIMMY FOX
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL E2MIS 130160 Feb 28, 2000 @ 10:45 Lopriore, mechanic A , reports while clean and flushing manhole # 26176 he noticed that oil was being sucked into truck. He immediately stopped cleanup. Mechanic reports approximately 1 quart of unknown oil in mud at bottom of manhole. Samples were taken and cleanup will resume as 50-499 ppm. Conduit plate (15-l-3) indicates no sewer connection. Manhole has earthen sump and Chem-lab will be notified when sample of earthen sump can be taken. Mar. 04, 2000 Cleanup completed by 00:40 hrs. by A. Guarino and E. Henn. The manhole was power washed with cleaning solution. According to A. Guarino there were no earthen sump. 400 gallons of water was removed along with 1 quart of unknown oil, which test results came back as less than 1 PPM. Tag number 24377 was removed. 03/04/00 @ 07:30 Hrs. Closed out job. 17-DEC-2002 13:40 NYSDEC Return the following question: DEC WAS GIVEN VERBAL SAMPLE RESULTS FROM CIG ON 2/28/00 AT 0500 HRS. OF 58 PPM PCB. E2MIS REPORT SAYS RESULTS ARE 1 PPM. WHY THE DISCREPANCY? This incident did not occurred until 2/28/00 at 10:45, No verbal would have been given at 05:00 on 2/28/00. NYSDEC was notified that the results of a Manhattan Electrical Distribution Incident 130079 were 58 ppm PCB by CIG R. Roach on 2/28/2000 05:18. This incidents NYS DEC spill number is

J & A SERVICE - CLOSED (Continued) **1007112495**

99-13455, the Manhattan incident with 58 ppm PCB is 99-13255. "
Remarks: "cleanup pending test results ref #130160"

All Materials:
Site ID: 298823
Operable Unit ID: 1087984
Operable Unit: 01
Material ID: 295303
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: G
Recovered: .00
Oxygenate: Not reported

NY MANIFEST:
Country: USA
EPA ID: NYR000115212
Facility Status: Not reported
Location Address 1: 1471 W FARMS RD
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: Not reported
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYR000115212
Mailing Name: ESTATE OF LOUIS ROMANO
Mailing Contact: JOSEPH A GOTTI
Mailing Address 1: 1471 W FARMS RD
Mailing Address 2: Not reported
Mailing City: BRONX
Mailing State: NY
Mailing Zip: 10460
Mailing Zip 4: 6001
Mailing Country: USA
Mailing Phone: 7183288528

NY MANIFEST:
Document ID: NYG2894976
Manifest Status: Not reported
seq: 01
Year: 2003
Trans1 State ID: 40580PANY
Trans2 State ID: Not reported
Generator Ship Date: 05/01/2003
Trans1 Recv Date: 05/01/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/02/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported

J & A SERVICE - CLOSED (Continued) **1007112495**

Generator EPA ID:	NYR000115212
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD077444263
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

C15 **J & L AUTO SERVICE** **EDR Hist Auto** **1021734021**
West **1471 W FARMS RD** **N/A**
< 1/8 **BRONX, NY 10460**
0.047 mi.
248 ft. **Site 3 of 5 in cluster C**

Relative: EDR Hist Auto
Higher

Actual: **26 ft.**

Year:	Name:	Type:
1970	J & L AUTO SERVICE	Gasoline Service Stations
1971	J & L AUTO SERVICE	Gasoline Service Stations
1972	J & L AUTO SERVICE	Gasoline Service Stations
1973	J & L AUTO SERVICE	Gasoline Service Stations
1974	J & L AUTO SERVICE	Gasoline Service Stations
1975	J & L AUTO SERVICE	Gasoline Service Stations
1985	J & L AUTO SERVICE	Gasoline Service Stations
1986	J & L AUTO SERVICE	Gasoline Service Stations
1987	J & L AUTO SERVICE	Gasoline Service Stations
1988	J & L AUTO SERVICE	General Automotive Repair Shops
1989	J & L AUTO SERVICE	General Automotive Repair Shops
1990	J & L AUTO SERVICE	General Automotive Repair Shops
1991	J & L AUTO SERVICE	General Automotive Repair Shops
1992	J & L AUTO SERVICE	General Automotive Repair Shops
1993	J & L AUTO SERVICE	General Automotive Repair Shops

J & L AUTO SERVICE (Continued) **1021734021**

1994 J & L AUTO SERVICE General Automotive Repair Shops

C16 **ABANDONED SERVICE STATION** **NY Spills** **S106012861**
West **1471 WEST FARM RD** **N/A**
< 1/8 **BRONX, NY**
0.053 mi.
280 ft. **Site 4 of 5 in cluster C**

Relative:
Higher

Actual:
29 ft.

SPILLS:

Facility ID:	0300164
Facility Type:	ER
Spill Number:	0300164
DER Facility ID:	78629
Site ID:	85601
DEC Region:	2
Closed Date:	2003-09-08
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	2003-04-04
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2003-04-04
CID:	211
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	2003-04-04
Spill Record Last Update:	2003-09-08
Spiller Name:	ROLAND FISHER
Spiller Company:	ABANDONED SERVICE STATION
Spiller Address:	1471 W FARM RD
Spiller Company:	001
Contact Name:	ROLAND FISHER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT DEC Sigona sent letter notification for contaminated soil investigation on April 4, 2003. 4/8/2003-Vought-Received message from Roland Fischer (Tyree - 631-249-3150x352). Vought returned call and left message to return call. Vought received another message and again returned call and spoke with Roland. 6 (550-gallon) UST's were removed. Contaminated soil found at dispenser island. Tyree will excavate contaminated soil and take endpoint samples. Tanks in vaulted concrete on top of bedrock. Lines to be excavated are 20' long. Sidewalls will be composited and two grab samples from bottom of trench. Tank closure report will be sent including site plan, analyticals and disposal manifests. 4/24/2003-Vought-Received message from Roland on 4/14. Vought returned call on 4/24 and left message with Roland to return call with updates. 5/5/2003-Vought-Spoke with Roland and soil contamination found (30'x 20' excavation was performed, bottom was bedrock). One sample had xylene at 4000ppb. Roland will send tank closure report and spill closure report including site plan, disposal manifest and analyticals.

ABANDONED SERVICE STATION (Continued) **S106012861**

7/18/2003-Vought-Spoke with Roland Fisher and report is being sent to NYSDEC today. 9/8/2003-Vought-UST Closure Report-May 2003-Tyree Organization-Six (550-gallon) gasoline USTs were removed in 3/03. Groundwater not encountered in excavation but suspected at depth of 60' and flowing to the southwest. Bedrock at depth of 8' below grade. USTs were in a vault constructed by direct pour of concrete onto the bedrock . Endpoint samples were collected from sidewalls and not collected from bottom due to bedrock. Soil analyticals show up to 3380ppb toluene(south wall), 70900ppb xylene(south wall) and 24000ppb napthalene(south wall). Tyree returned to site to peform additional soil removal under the former pump island area and removed 50 tons of soil. Seven subsequent soil endpoint samples were collected and soil analyticals showed two exceedances at 3050ppb xylene(west wall) and 3320ppb 1,3,5-trimethylbenzene(west wall). Spill closed by Vought as per Rommel due to 60' suspected depth to groundwater and excavation to bedrock (and hence no sensitive receptors). Spill closed by Vought. "

Remarks: "caller did tank removal and test results show soil contamination caller believes line failed causing release"

All Materials:

Site ID:	85601
Operable Unit ID:	866224
Operable Unit:	01
Material ID:	508245
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

C17 **NYC DEP** **RCRA NonGen / NLR** **1014395540**
NW **1508 BOONE AVE** **NY MANIFEST** **NYP003664406**
< 1/8 **BRONX, NY 10460**
0.057 mi.
300 ft. **Site 5 of 5 in cluster C**

Relative: **Higher**
Actual: **30 ft.**

RCRA NonGen / NLR:

Date form received by agency:	06/19/2009
Facility name:	NYC DEP
Facility address:	1508 BOONE AVE BRONX, NY 10460
EPA ID:	NYP003664406
Mailing address:	JUNCTION BLVD FLUSHING, NY 11373
Contact:	JOANNE NURSE
Contact address:	JUNCTION BLVD FLUSHING, NY 11373
Contact country:	US
Contact telephone:	718-595-4675
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

NYC DEP (Continued) **1014395540**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

NY MANIFEST:
Country: USA
EPA ID: NYP003664406
Facility Status: Not reported
Location Address 1: 1508 BOONG AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: Not reported
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP003664406
Mailing Name: NYCDEP
Mailing Contact: NYCDEP
Mailing Address 1: 96-05 HORACE HARDING EXPRESSWAY
Mailing Address 2: Not reported
Mailing City: CORONA
Mailing State: NY
Mailing Zip: 11368
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 6465845597

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2009
Trans1 State ID: NYD049178296
Trans2 State ID: Not reported
Generator Ship Date: 06/22/2009
Trans1 Recv Date: 06/22/2009
Trans2 Recv Date: Not reported
TSD Site Recv Date: 06/30/2009
Part A Recv Date: Not reported

NYC DEP (Continued) **1014395540**

Part B Recv Date:	Not reported
Generator EPA ID:	NYP003664406
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD083377010
TSDF ID 2:	Not reported
Manifest Tracking Number:	004854799JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1300.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	1.0
Waste Code:	D002
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

D18 **UNDERGROUND TRANSFORMER** **NY Spills** **S102962130**
North **1565 WEST FARMS RD** **N/A**
< 1/8 **BRONX, NY**
0.062 mi.
327 ft. **Site 1 of 4 in cluster D**

Relative: SPILLS:
Higher

Facility ID:	9712148
Facility Type:	ER
Spill Number:	9712148
DER Facility ID:	156430
Site ID:	187219
DEC Region:	2
Closed Date:	2009-08-19
Spill Cause:	Unknown
Spill Class:	C5
SWIS:	0301

Actual:
29 ft.

UNDERGROUND TRANSFORMER (Continued) **S102962130**

Spill Date:	1998-01-30
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	1998-01-30
CID:	233
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-01-30
Spill Record Last Update:	2009-08-19
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ENGELHARDT 114487 01/30/98 1944 HRS. G.LOPRIORE (FL) FOUND UNKNOWN SUBSTANCE IN VS 1773. SAMPLE TAKEN & YELLOW TAG PLACED IN VS. TAG #09500 FORMAN COULD NOT TELL IF THERE WAS A SUMP PUMP PRESENT DUE TO AMOUNT OF SUBSTANCE IN VS. NO SEWER CONNECTION & NO OUTSIDE IMPACT. UNKNOWN SUBSTANCE IS COMMING FROM UNDER A GARAGE DOOR UNIT FROM THE FERRIS STAHL MEYER PACKING CORP. AT 1560 BOOM AV. PHOTO REQ. CIG NOTIFY ABOUT UPDATE 2105 HRS. A REPRESENTIVE OF THE ABOVE STORE DID NOT WANT TO TALK ABOUT THE SUBSTANCE & WAS NOT CONCERNED.J.SCHLEMBACH 32616. ~~~~~~~~~~~~~~~~~~~~~~~~~~~~A.Bucci #57523~~~~~~~~~~~~~~~~~~~~~~ I was instructed by A.Chang told to notify CIG that this is going to be a third party spill. I spoke with R.Roach at 0821. 10 feb. 1998 16:40..... A.Tortora went out to loc. and took another sample. He is sampling for I.D not PCB. ~~~~~~ 12-FEB-98 THE SECOND SAMPLE INDICATED AGAIN INSUFICIENT MATERIAL. ENV AFFAIRS A. CHANG TO VISIT THE LOCATION AND PROVIDE DIRECTION. E. DE LA HOZ 79237 ========== SAMPLE RESULTS RECIEVED 3/2/98...<1PPM 1254 AROCLOR P SCHMID 58060 3/3/98 ========== 05-MAR-98 ENV A.CHANG RECOMMEDS TCLP SAMPLING BEFORE CLEANUP. A NEW SAMPLE WILL BE REQUESTED. From: Chang, Angel CHANGA - CONED To: Delahoz, Eddy EDELAHOZ - TAODGN cc: Cawley, Timothy P. CAWLEYT - CONED Subject: FW: By R. NEVIN 98-02528 The benzene value came below the RCRA limits. This is the job near the packaging facility and a candidate for a third party spill. Maybe we should also include it for sealing. The clean-up can proceed as less than 50ppm. 29-MAY-1998 14:30 HRS CLEANUP STARTED AT THIS LOCATION TODAY. UG L.FISCHER REPORTS THAT THERE ARE FIVE 55- GAL GARBAGE CANS OUTSIDE THE FERRIS PACKING HOUSE FILLED WITH FOUL-SMELLING MEAT BYPRODUCTS. FISCHER REQUESTED THAT DEP BE NOTIFIED. I CONTACTED ERT AND EXPLAINED THE SITUATION. ERT LUKSHIDES SPOKE TO STANLEY BALDWIN FROM THE DEP. DEP REFERRED HER TO THE ENVIRONMENTAL POLICE UNIT (DEP DOES NOT COVER THESE TYPE OF CASES). NO ONE AVAILIABLE AT THE E.P.U. CLEANUP IN PROGRESS USING 5000 GAL TANKER. FISCHER REPORTS THERE IS NO OIL PRESENT - SLIGHT GREASY FILM & ODOR. LUKSHIDES RECOMMENDS THAT ANY FUTURE CLEANUP OF

UNDERGROUND TRANSFORMER (Continued) **S102962130**

THIS MATERIAL WOULD NOT REQUIRE A TANKER TRUCK BASED ON OUR KNOWLEDGE OF THE SITUATION AND THE SAMPLE RESULTS. MAY 29, 1998 JOB COMPLETED AND TAG REMOVED. CREW REPORTS THAT HOLE HAS A FRESH WATER LEAK AND THE CITY NEEDS TO RESPOND TO THE SITUATION. 8/19/09 - Austin - Material appears to be animal waste product from a meat packing plant - not a regulated substance under the DEC spills program - Con Ed took care of material impacting their vault, and contacted NYCDEP for followup by city on this matter. closed - end "

Remarks: "unk material has entered the a underground transformer material seems to be comming from under a garage door that belongs to Ferris Stahl Meyer packing corp. at 1560 Boone Ave Bronx owner of that business has been contacted by caller but has not responded to scene spill is contained in the vs "

All Materials:

Site ID:	187219
Operable Unit ID:	1054764
Operable Unit:	01
Material ID:	326773
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	525.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

E19 **I/A/O BOONEY AVE & 172ND ST** **NY Spills** **S109826783**
NW **BOONEY AVE & 172ND ST** **N/A**
< 1/8 **BRONX, NY**
0.070 mi.
367 ft. **Site 1 of 10 in cluster E**

Relative: Higher
Actual: 32 ft.

SPILLS:

Facility ID:	0903264
Facility Type:	ER
Spill Number:	0903264
DER Facility ID:	364471
Site ID:	415365
DEC Region:	2
Closed Date:	2009-06-26
Spill Cause:	Other
Spill Class:	C4
SWIS:	0301
Spill Date:	2009-06-19
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2009-06-19
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported

I/A/O BOONEY AVE & 172ND ST (Continued) **S109826783**

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-06-19
Spill Record Last Update:	2009-06-26
Spiller Name:	Not reported
Spiller Company:	NYC DEPT OF SANITATION
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	MICHAEL MONACO
DEC Memo:	"Garbage - not a spill FD on site"
Remarks:	"CALLER STATES THAT DUE TO A GARBAGE TRUCK FIRE THE ENTIRE CONTENTS OF THE TRUCK WERE DUMPED ON THE LENGTH OF THE ROAD. SOME OF THE RUN OFF WENT INTO THE SEWER CLEAN UP WAS DONE."

All Materials:

Site ID:	415365
Operable Unit ID:	1171707
Operable Unit:	01
Material ID:	2163527
Material Code:	0051A
Material Name:	garbage
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	L
Recovered:	Not reported
Oxygenate:	Not reported

F20 **NONE** **NY AST** **A100300919**
SSW **1040 - 1052 EDGEWATER ROAD** **N/A**
< 1/8 **BRONX, NY 10459**
0.070 mi.
370 ft. **Site 1 of 7 in cluster F**

Relative:
Higher

Actual:
37 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-610205
Program Type:	PBS
UTM X:	593989.87754
UTM Y:	4520285.48784
Expiration Date:	N/A
Site Type:	Manufacturing (Other than Chemical)/Processing

Affiliation Records:

Site Id:	364063
Affiliation Type:	Facility Owner
Company Name:	NYC DEPT OF PARKS & RECREATION
Contact Type:	PROJECT MANAGER
Contact Name:	MATTHEW BROOKS
Address1:	OLMSTEAD CENTER - FLUSHING MEASDOWS-CORONA PARK
Address2:	Not reported
City:	FLUSHING
State:	NY
Zip Code:	11368
Country Code:	001
Phone:	(718) 760-6728

NONE (Continued) **A100300919**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-04-19
Site Id:	364063
Affiliation Type:	Mail Contact
Company Name:	GRAMERCY GROUP, INC.
Contact Type:	Not reported
Contact Name:	MR. MATTHEW BROOKS
Address1:	100 GRAND STREET
Address2:	Not reported
City:	WESTBURY
State:	NY
Zip Code:	11590
Country Code:	001
Phone:	(516) 876-0020
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2006-05-17
Site Id:	364063
Affiliation Type:	Facility Operator
Company Name:	NONE
Contact Type:	Not reported
Contact Name:	GRAMERCY GROUP, INC.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	NONE
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2006-05-17
Site Id:	364063
Affiliation Type:	Emergency Contact
Company Name:	DEPARTMENT OF PARKS - NEW YORK CITY
Contact Type:	Not reported
Contact Name:	MR. MATTHEW BROOKS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 369-6668
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2006-05-17

NONE (Continued) **A100300919**

Tank Info:

Tank Number:	1
Tank Id:	211784
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C01 - Pipe Location - Aboveground
L00 - Piping Leak Detection - None

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	12/30/2005
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	12/30/2005
Register:	True
Modified By:	KXTANG
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

Tank Number:	2
Tank Id:	211785
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

L00 - Piping Leak Detection - None
G02 - Tank Secondary Containment - Vault (w/access)
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron

NONE (Continued) **A100300919**

Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/30/2005
Capacity Gallons: 10000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 12/30/2005
Register: True
Modified By: KXTANG
Last Modified: 04/14/2017
Material Name: #2 fuel oil (on-site consumption)

Tank Number: 3
Tank Id: 211786
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
J03 - Dispenser - Gravity
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G02 - Tank Secondary Containment - Vault (w/access)
Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/30/2005
Capacity Gallons: 10000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 12/30/2005
Register: True
Modified By: KXTANG
Last Modified: 04/14/2017
Material Name: #2 fuel oil (on-site consumption)

Tank Number: 4
Tank Id: 211787
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None

NONE (Continued) **A100300919**

I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G02 - Tank Secondary Containment - Vault (w/access)
J03 - Dispenser - Gravity
L00 - Piping Leak Detection - None
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	12/30/2005
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	12/30/2005
Register:	True
Modified By:	KXTANG
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

Tank Number:	5
Tank Id:	211788
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

C01 - Pipe Location - Aboveground
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	12/30/2005
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	12/30/2005
Register:	True
Modified By:	KXTANG
Last Modified:	04/14/2017

NONE (Continued) **A100300919**

Material Name: #2 fuel oil (on-site consumption)

Tank Number: 6
Tank Id: 211789
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
C01 - Pipe Location - Aboveground
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/30/2005
Capacity Gallons: 6000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 12/30/2005
Register: True
Modified By: KXTANG
Last Modified: 04/14/2017
Material Name: #2 fuel oil (on-site consumption)

Tank Number: 7
Tank Id: 211790
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
L00 - Piping Leak Detection - None

Tank Location: 3

NONE (Continued) **A100300919**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	12/30/2005
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	12/30/2005
Register:	True
Modified By:	KXTANG
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

D21 **1544 BOONE AVENUE "COMPASS RESIDENCES 2A & 2B"** **NY VCP** **S118943512**
NNW **1544 BOONE AVENUE "COMPASS RESIDENCES 2A & 2B"** **N/A**
< 1/8 **NEW YORK CITY, NY**
0.071 mi.
373 ft. **Site 2 of 4 in cluster D**

Relative: **Higher**

Actual: **32 ft.**

VCP NYC:

Project ID:	15CVCP124X
Project Name:	1544 BOONE AVENUE "COMPASS RESIDENCES 2A & 2B"
Project Address:	1544 BOONE AVENUE "COMPASS RESIDENCES 2A & 2B"
Borough:	BRONX

VCP NYC:

Project ID:	15CVCP124X
File Name:	2014-12-24.RIR
URL:	http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/15CVCP124X/2014-12-09.14RHAN575X.report.RIR_Draft.pdf

Project ID:	15CVCP124X
File Name:	2015-05-06.RAWP_Draft
URL:	http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/15CVCP124X/2015-05-06.14RHAN575X.report.1544_Boone_Avenue_RAWP.Final(1).pdf

Project ID:	15CVCP124X
File Name:	2015-05-06.Factsheet-1
URL:	http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/15CVCP124X/2015-05-06.15CVCP124X.doc.1544_Boone_Avenue.Factsheet-1.pdf

Project ID:	15CVCP124X
File Name:	2015-05-06.Translated_Factsheet-1
URL:	http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/15CVCP124X/2015-05-06.15CVCP124X.1544_Boone_Avenue.Translated_FS-1.pdf

Project ID:	15CVCP124X
File Name:	2015-05-06.Translated_CPS
URL:	http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/15CVCP124X/2015-05-06.15CVCP124X.1544_Boone_Avenue.Translated_CPS.pdf

D22 **LOT 9,TAXBLOCK 3014** **NY RES DECL** **S116291059**
NNW **1544 BOONE AVENUE** **NY Spills** **N/A**
< 1/8 **BRONX, NY 10460**
0.071 mi.
373 ft. **Site 3 of 4 in cluster D**

Relative:
Higher

Actual:
32 ft.

ENV RES DECL:

Borough:	BX
Tax Block:	3014
Tax Lot:	9
Reference Number:	R-208
Date Recorded:	12/5/2011
Satisfaction Date:	Not reported
CEQR Number:	10DCP017X
Application Number:	100310 ZMX
Recording Reference Number:	2011000423714
Type:	Air
Lot Remediation Date:	Not reported
Reference Number:	R-208
Date Recorded:	12/5/2011
Satisfaction Date:	Not reported
CEQR Number:	10DCP017X
Application Number:	100310 ZMX
Recording Reference Number:	2011000423714
Type:	Hazmat
Lot Remediation Date:	Not reported
Reference Number:	R-208
Date Recorded:	12/5/2011
Satisfaction Date:	Not reported
CEQR Number:	10DCP017X
Application Number:	100310 ZMX
Recording Reference Number:	2011000423714
Type:	Noise
Lot Remediation Date:	Not reported

SPILLS:

Facility ID:	1403152
Facility Type:	ER
Spill Number:	1403152
DER Facility ID:	451420
Site ID:	496500
DEC Region:	2
Closed Date:	2017-04-25
Spill Cause:	Equipment Failure
Spill Class:	D4
SWIS:	0301
Spill Date:	2014-06-23
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2014-06-23
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported

LOT 9,TAXBLOCK 3014 (Continued) **S116291059**

Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2014-06-23
Spill Record Last Update:	2017-08-15
Spiller Name:	Not reported
Spiller Company:	SEDGWICK MATERIALS INC
Spiller Address:	1536 SOUTHERN BLVD
Spiller Company:	999
Contact Name:	KEVIN KLEAKA
DEC Memo:	"site is entering into NYC vcp program and impact is working with NYC OER Moore on the project. Phase II will be sent ot me for reviwew. IT is a vacant lot know and is going to be redeveloped. 8/5/14-Vought-Received email from OER Moore that Morning Jeff would you please tell us who the DEC PM is for Spill # 14-03152 (1544 Boone Avenue)? They are working through our program, and we want coordinate on the investigation.Thanks,Hannah. Vought sent reply that Hannah,The Project Manager for the spill is Ryan Piper (copied above) and you can also reach him at (718)482-4927. He is on vacation this week and will be returning to the office on Monday 8/11. As per his last notes, a Phase II report is to be sent to him for review. Thanks for the coordination as always,-Jeff. 4/21/15- DEC Piper recieved and reviewed work plan. RAWP approved though excavation of pet cont soils to encompass former tank. RAWP in DEC DOCS. spill closure report to follow. 9/7/16- DEC Piper emailed Hannah Moore for info. 2/6/2017- DEC Piper received closure report. A 14-story, 304,000 gross square foot mixed use residential/commercial retail building with 292 residential units is currently in the process of being constructed. Sub-grade construction is limited for this development; the foundation structure is predominantly slab-on-grade construction with the exception of two cellars located in the northwestern and southeastern corners of the building. The GPR survey identified ten (10) subsurface anomalies within the footprint of the former warehouse building (northwest corner of the Site) that were interpreted to represent USTs. Twenty-two (22) soil borings were installed throughout the Site to depths of 12 to 13 feet below grade surface; five (5) of the soil borings were installed proximal to the USTs identified in the GPR survey. Laboratory analysis of the soil samples detected the presence of several volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and heavy metals at concentrations exceeding regulatory standards. the soil quality in the location of the former warehouse/building in the northwestern portion of the Site (the area surrounding the historic USTs) and the area to the east and southeast of the USTs appeared to be impacted by gasoline related constituents. Spill remediation was performed in conjunction with redevelopment construction and in accordance with the scope of work presented in the Spill RAWP dated February 25, 2015. A total of 332.08 tons of grossly petroleum contaminated material from the spill area was transported for off-site disposal as non-hazardous waste to Bayshore Soil Management in Keasbey, NJ. A total of 3,777.34 tons of petroleum contaminated soil/fill from the spill area and surrounding areas that did not exhibit evidence of free petroleum product was transported for off-site disposal as non-hazardous waste. A total of 96,176 gallons of petroleum impacted groundwater was pumped from the spill area excavation and transported

LOT 9,TAXBLOCK 3014 (Continued) **S116291059**

off-site for disposal to Clean Waters of New York in Staten Island, NY and Lorco Petroleum in Elizabeth, NJ. On September 17, 2015, IEC applied 1,911 gallons of RegenOx, chemical oxidizing solution manufactured by Regenesis. A waterproofing/vapor barrier system consisting of Bituthene Preprufe 160R 32 mils thick was installed behind all cellar blind side foundation walls below grade, Bituthene Preprufe 300R 46 mils was installed beneath all cellar foundation slabs and Husky Yellow Guard 20 mils non-waterproofing membrane was installed beneath all slab-ongrade foundation slabs. The vapor barrier membranes were installed according to manufacturer specifications. An active sub-slab depressurization system (SSDS) was also installed beneath the new building foundation slab. The SSDS consists of 3-inch slotted screen PVC pipes aligned horizontally beneath the building slab and attached to 4-inch solid PVC pipe and steel risers. The SSDS was installed within porous granular material consisting of 3/4-inch stone. The SSDS horizontal screen piping provide the correct coverage in accordance with US EPA SSDS design specifications which recommend a separate vent loop/branch for every 4,000 square feet of slab area. Each branch is outfitted with a riser that extends to the roof of the building and connected to an electrical inline fan. 04/24/2017- DEC Piper - Based on work completed to date, this spill is closed. report is in DEC Docs. 8/11/17- DEC Piper- copied on email from NYSDOH: Shaminder, I have reviewed the results of the Soil Vapor Intrusion Study performed to evaluate conversion of the active sub-slab depressurization system (SSDS) to a passive system. Concentrations off all compounds detected were below their respective Matrix values and Air Guidelines. Furthermore, when compounds in indoor air are detected that do not apply to a Matrix, we compare the concentrations to the NYSDOH Study Volatile Organic Chemicals in Air of Fuel Oil Heated Homes values to determine whether levels of VOCs are elevated compared to typical background ranges. The values in this study come from over 100 homes tested in New York State that have not been affected by any chemical releases. The indoor air results were all within typical background, additionally, concentrations of VOCs in sub-slab soil vapor were detected at levels that do not have the potential to impact indoor air in the future. Based on this information, I agree with the conclusion that the SSDS can be made passive. If you wish to discuss my recommendations further please feel free to contact me. Thanks Nate Nathan M. Walz Public Health Specialist III Bureau of Toxic Substance Assessment Exposure Characterization and Response Section New York State Department of Health Center for Environmental Health Empire State Plaza, Corning Tower, Room 1762 Albany, New York 12237 "

Remarks: "Soil investigation results showed gasoline contamination. Clean up will be done by Allied West Farms NY II LLC"

All Materials:

Site ID:	496500
Operable Unit ID:	1245986
Operable Unit:	01
Material ID:	2247065
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported

LOT 9,TAXBLOCK 3014 (Continued) **S116291059**

Oxygenate: Not reported

G23 **CON EDISON** **RCRA NonGen / NLR** **1012185546**
SSE **1243 BRONX RIVER AVE** **NY MANIFEST** **NYP004163549**
< 1/8 **BRONX, NY 10452**
0.071 mi.
377 ft. **Site 1 of 6 in cluster G**

Relative:
Higher

Actual:
21 ft.

RCRA NonGen / NLR:
Date form received by agency: 06/01/2016
Facility name: CON EDISON
Facility address: 1243 BRONX RIVER AVE
BRONX, NY 10452
EPA ID: NYP004163549
Mailing address: 4 IRVING PL, RM 828
NEW YORK, NY 10003
Contact: DANIEL PONTECORVO
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: 347-203-2573
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/27/2009
Site name: CON EDISON
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
Country: USA
EPA ID: NYP004163549
Facility Status: Not reported
Location Address 1: F/O 1243 BRONX RIVER AVE M/H 1219
Code: BP

CON EDISON (Continued) **1012185546**

Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004163549
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLYN MURRAY
Mailing Address 1:	4 IRVING PALCE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124602808

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2009
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	01/27/2009
Trans1 Recv Date:	01/27/2009
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/29/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004163549
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD077444263
TSDF ID 2:	Not reported
Manifest Tracking Number:	001432752FLE
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300.0

CON EDISON (Continued) **1012185546**

Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

G24 **APEX SALES, TOWING & LEASING, INC.** **NY AST** **A100293074**
SSE **1235 BRONX RIVER AVENUE** **N/A**
< 1/8 **BRONX, NY 10472**
0.073 mi.
385 ft. **Site 2 of 6 in cluster G**

Relative:
Higher

Actual:
20 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-610044
Program Type:	PBS
UTM X:	594213.49160
UTM Y:	4520421.04528
Expiration Date:	N/A
Site Type:	Other Wholesale/Retail Sales

Affiliation Records:

Site Id:	354506
Affiliation Type:	Facility Owner
Company Name:	APEX SALES, TOWING & LEASING
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1235 BRONX RIVER AVE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10472
Country Code:	001
Phone:	(718) 328-7200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-10-28

Site Id:	354506
Affiliation Type:	Mail Contact
Company Name:	APEX SALES, TOURING & LEASING
Contact Type:	Not reported
Contact Name:	RONALD MAIO
Address1:	1235 BRONX RIVER AVENUE
Address2:	Not reported

APEX SALES, TOWING & LEASING, INC. (Continued) **A100293074**

City:	BRONX
State:	NY
Zip Code:	10472
Country Code:	001
Phone:	(718) 328-7200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2005-10-24

Site Id:	354506
Affiliation Type:	Facility Operator
Company Name:	APEX SALES, TOURING & LEASING, INC.
Contact Type:	Not reported
Contact Name:	RONALD MAIO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-7200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LXZIELIN
Date Last Modified:	2010-10-04

Site Id:	354506
Affiliation Type:	Emergency Contact
Company Name:	APEX SALES, TOURING & LEASING
Contact Type:	Not reported
Contact Name:	RONALD MAIO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 418-8628
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LXZIELIN
Date Last Modified:	2010-10-04

Tank Info:

Tank Number:	001
Tank Id:	208508
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

I00 - Overfill - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
A01 - Tank Internal Protection - Epoxy Liner

APEX SALES, TOWING & LEASING, INC. (Continued) **A100293074**

G00 - Tank Secondary Containment - None
K00 - Spill Prevention - None
B01 - Tank External Protection - Painted/Asphalt Coating
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J00 - Dispenser - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	07/30/1998
Capacity Gallons:	50
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/20/2009
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

G25 **APEX SALES TOWING & LEASING CORP** **NY CBS** **S108130286**
SSE **1235 BRONX RIVER AVE** **NY Spills** **N/A**
< 1/8 **BRONX, NY 10472** **NY SPDES**
0.073 mi.
385 ft. **Site 3 of 6 in cluster G**

Relative: **Higher**
Actual: **20 ft.**

CBS:

CBS Number:	2-000425
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	594213.49160
UTMY:	4520421.04528

SPILLS:

Facility ID:	0605983
Facility Type:	ER
Spill Number:	0605983
DER Facility ID:	319146
Site ID:	369262
DEC Region:	2
Closed Date:	2006-08-29
Spill Cause:	Other
Spill Class:	C3
SWIS:	0301
Spill Date:	2006-08-23
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2006-08-23
CID:	27
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency

APEX SALES TOWING & LEASING CORP (Continued) **S108130286**

Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-08-24
Spill Record Last Update:	2015-12-28
Spiller Name:	Not reported
Spiller Company:	SALVAGE YARD
Spiller Address:	1235 BRONX RIVER AVE
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"08/24/06-Vought-Off hours spill responder. Vought repsonded to spill on 8/23/06 at 21:00 and fire still in progress so site inspection not possible. Vought inspected Bronx River (separated from Apex Sales by train tracks) and no impact to Bronx River other than sheen. Sheen may also be biological but unable to tell due to lack of light. No free product or impacted wildlife noted. As per FDNY Hazamat three tanks were onsite: two (275-gallon) fuel oil and one (275-gallon) waste oil and currently tanks were not comprimised. Buildings adjacent to site were evacuated however no toxic fumes noted (other than burning cars and debris). Contact information for owner is: Apex Sales Bill Maio 718-328-7000 cell: 914-760-3831. Fire may have been started on adjacent train tracks. Vought received call from FDNY Chief Weinlein (718-999-7900) on 8/23 at 21:16pm and access to site still not possible. Vought told him that site inspection would be performed on 8/24/06 and he would be called with results. Vought called Weinlein and left message informing him that site inspection was performed and DEC's only requirement was recovery of small puddle of transmission oil (approximately 10' in diameter) in rear of property. Vought conveyed requirement to Bill Maio (owner) and owner will submit invoice and documents of cleanup (possible disposal manifest). Vought also met with Resa Dimino (Bronx River Alliance 718-430-4648) and walked River and site with her. She agreed on no spill to Bronx River and requested no further action from DEC. Vought received call from USCG (718-354-4121) and returned call and left message with DEC requirement. Vought will followup with with cleanup of puddle of transmission oil on 8/25/06. 08/29/06-Vought-received letter from Apex Sales Towing & Leasing dated 8/25/06. We have rectified all hazards to the yard at to your specifications. Enclosed please find receipt for the materials purchased to facilitate the removal of these hazards . Receipt from S&S Adsorbents and EnviroWaste Oil Recovery also included for druming and disposal of used adsorbent materials. Spill closed by Vought. 12/28/15-Vought-Received email from DEC Erin Shirkey that site is part of the Bronx River Greenway project and she was inquiring about spill status. Vought sent her copy of these spill notes and note that spill had been closed and that if she needed further assistance to let Vought know. Vought sent email that Erin, My apologies for my delay in response. The above spill was closed on August 29, 2006. I have attached the Spill Report above that has more information on the response and cleanup. I also ran the address under the NYCDOB database for alternate addresses, found that there were no others, and then searched our Spills database and found no other open or closed spills associated with the site. If you need anything else, please don t hesitate to ask. DEC Shirkey replied with thanks."

APEX SALES TOWING & LEASING CORP (Continued) **S108130286**

Remarks: "Caller reports a fire at a salvage yard. Fire caused the spill of the materials. No cleanup company has been contacted. FDNY is on the scene. 2nd call at same time from FF Morris Hazmat 1 FDNY at 914.552.2516 requests on call rep to call. Petty Officer Sierra of US Coast Guard req call back from reg 2 DEC Rep in ref to impact of Bronx River @ 718-354-4121 "

All Materials:

Site ID:	369262
Operable Unit ID:	1127104
Operable Unit:	01
Material ID:	2116686
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	369262
Operable Unit ID:	1127104
Operable Unit:	01
Material ID:	2116687
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	369262
Operable Unit ID:	1127104
Operable Unit:	01
Material ID:	2116685
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPDES:

Permit Number:	NYR00E133
State-Region:	02
Expiration Date:	03/31/2012
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5015
State Water Body Name:	BRONX RIVER
Limit Set Status Flag:	Active

APEX SALES TOWING & LEASING CORP (Continued) **S108130286**

Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.829444 / -73.882778
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	APEX SALES TOWING AND LEASING CORP
Non-Gov Permit Street Address:	APEX SALES TOWING AND LEASING CORP
Non-Gov Permit Supplemental Location:	1235 BRONX RIVER AVE
Non-Gov Permit City:	BRONX
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10472
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Street Address:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Supplemental Location:	1235 BRONX RIVER AVE
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10472
State Water Body:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	APEX SALES TOWING AND LEASING CORP
Non-Gov Permit Street Address:	1235 BRONX RIVER AVE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BRONX
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10472
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Street Address:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Supplemental Location:	1235 BRONX RIVER AVE
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10472
State Water Body:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner

APEX SALES TOWING & LEASING CORP (Continued) **S108130286**

Non-Gov Facility Org Formal Name:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Street Address:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Supplemental Location:	1235 BRONX RIVER AVE
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10472
State Water Body:	Not reported

H26 **BRONX RIVER** **NY Spills** **S104879841**
South **WESTCHESTER AVE** **N/A**
< 1/8 **BRONX, NY**
0.073 mi.
386 ft. **Site 1 of 8 in cluster H**

Relative: **Lower**

Actual: **1 ft.**

SPILLS:

Facility ID:	0008407
Facility Type:	ER
Spill Number:	0008407
DER Facility ID:	262178
Site ID:	325485
DEC Region:	2
Closed Date:	2005-05-03
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	2000-10-18
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2000-10-18
CID:	205
Water Affected:	BRONX WATER
Spill Source:	Unknown
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2000-10-18
Spill Record Last Update:	2006-07-05
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	CALLER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND A citizen called in a spill (#0008407)on the Bronx River, just south of Westchester Ave along the west side bulkhead of an abandoned cement plant. Sangesland responded to the site and did NOT see any sheen on the river. Sangesland reported the spill to the USCG. Since Sangesland was headed out to the site, the USCG was short staffed and asked for a site report. Once at the site, Sangesland called the USCG back and said no spill was seen. At the site, was a crew (15 people) from the NYC Parks Dept. who were cleaning up the lot and water's edge. Mr. Brian Aucoin (718-430-18) a Conservation Specialist with the Parks Dept. explained that the city got special funding to fight the West Nile Problem and they were removing several hundred old tires from the shore area and generally cleaning the site

BRONX RIVER (Continued) **S104879841**

up. To prevent any garbage from floating downstream, the NYC DEP set up a boom across the river which is cleared frequently. In addition to the garbage/tire issue, there was a break in the water main (to the on site fire hydrants) which was flooding the site and could have flushed out some surface contamination onto the river. DEP has been notified and they are trying to isolate and fix the line. On the property Sangesland found 5 aboveground petroleum storage tanks which were abandoned when the cement plant was abandoned. They all appeared to be empty for quite some time with no signs of contamination around them. They are all closed (no rainwater going in) and all appeared to be secure. The Parks Dept person said this whole area was going to be demolished and rebuilt as a park. Sangesland did not see any petroleum spillage or any obvious sources. Parks Dept. is cleaning up the site and they were asked to call the Spills Hotline if they see any type of spillage or sheen on the river."

Remarks: "caller reports sheen on water from pipe thet goes into river."

All Materials:

Site ID:	325485
Operable Unit ID:	828999
Operable Unit:	01
Material ID:	545915
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

E27 **CON EDISON** **NY MANIFEST** **S117067231**
NW **1521 BOONE AVE** **N/A**
< 1/8 **BRONX, NY 10460**
0.078 mi.
413 ft. **Site 2 of 10 in cluster E**

Relative:
Higher

Actual:
33 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004599866
Facility Status:	Not reported
Location Address 1:	1521 BOONE AVE
Code:	BP
Location Address 2:	SB 25110
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004599866
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY

CON EDISON (Continued) **S117067231**

Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/17/2014
Trans1 Recv Date:	07/17/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/18/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004599866
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503661GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

CON EDISON (Continued) **S117067231**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

H28 **NYCDOT** **RCRA NonGen / NLR** **1000889999**
South **WESTCHESTER AVE OVER** **NY0000204529**
< 1/8 **BRONX, NY 10459**
0.079 mi.
418 ft. **Site 2 of 8 in cluster H**

Relative:
Lower

Actual:
0 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	NYCDOT
Facility address:	WESTCHESTER AVE OVER AMTRAK & CONRAIL BRONX, NY 10459
EPA ID:	NY0000204529
Mailing address:	RECTOR ST - 5TH FLOOR NEW YORK, NY 10006
Contact:	ADRIAN MOSHE
Contact address:	RECTOR ST - 5TH FLOOR NEW YORK, NY 10006
Contact country:	US
Contact telephone:	718-542-2318
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYCDOT
Owner/operator address:	2 RECTOR ST - 5TH FLOOR NEW YORK, NY 10006
Owner/operator country:	US
Owner/operator telephone:	212-788-1792
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NYCDOT
Owner/operator address:	2 RECTOR ST - 5TH FLOOR NEW YORK, NY 10006
Owner/operator country:	US
Owner/operator telephone:	212-788-1792
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

NYCDOT (Continued) **1000889999**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: NYCDOT
Classification: Not a generator, verified

Date form received by agency: 04/14/1994
Site name: NYCDOT
Classification: Not a generator, verified

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

G29 **215315; 1243 BRONX RIVER AVENUE** **NY Spills** **S110306923**
SSE **1243 BRONX RIVER AVENUE** **N/A**
< 1/8 **NEW YORK, NY**
0.084 mi.
446 ft. **Site 4 of 6 in cluster G**

Relative:
Higher

Actual:
22 ft.

SPILLS:
Facility ID: 0913981
Facility Type: ER
Spill Number: 0913981
DER Facility ID: 386923
Site ID: 432904
DEC Region: 2
Closed Date: 2009-01-27
Spill Cause: Equipment Failure
Spill Class: D4
SWIS: 0301
Spill Date: 2009-01-27
Investigator: DMPOKRZY
Referred To: Not reported
Reported to Dept: 2009-03-30
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: Not reported
Last Inspection: Not reported
Recommended Penalty: Not reported

215315; 1243 BRONX RIVER AVENUE (Continued) **S110306923**

UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2010-04-16
Spill Record Last Update:	2010-04-16
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON
Spiller Address:	5030 BROADWAY
Spiller Company:	001
Contact Name:	ERT DESK
DEC Memo:	""
Remarks:	""

All Materials:

Site ID:	432904
Operable Unit ID:	1183815
Operable Unit:	01
Material ID:	2178228
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

F30 **BRONX RIVER** **NY Spills** **S107408359**
SSW **WESTCHESTER AVE/EDGEWATER** **N/A**
< 1/8 **BRONX, NY**
0.085 mi.
450 ft. **Site 2 of 7 in cluster F**

Relative:
Higher

Actual:
37 ft.

SPILLS:

Facility ID:	0506235
Facility Type:	ER
Spill Number:	0506235
DER Facility ID:	298670
Site ID:	351408
DEC Region:	2
Closed Date:	2005-08-22
Spill Cause:	Unknown
Spill Class:	C6
SWIS:	0301
Spill Date:	2005-08-20
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2005-08-20
CID:	72
Water Affected:	BRONX RIVER
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0

BRONX RIVER (Continued) **S107408359**

Date Entered In Computer:	2005-08-20
Spill Record Last Update:	2005-08-22
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	ANNMARIE RUNFOLA
DEC Memo:	"8/22/05 - Austin - On 8/20, I spoke with Anne Marie Runfolo (sp?) of the Bronx River Alliance, who had called NYC Parks about a sheen along the western shoreline of the Bronx River, between the Cross Bronx X-way and Westchester Ave. (upland area is a City Park know as Concrete Plant Park.)She also indicated that there was a pipe discharging from the eastern shoreline of the river, across from the park. The pipeline was located at the northern parking lot of ABC Carpets, on Bronx River Ave. She had seen these events while on a canoe trip on the river. I then went to the site, and investigated the complaints. No sheen was observed in the river, but there was leaf matter floating on the water, indicating a storm sewer discharge from the storm event that had occurred on 8/19. I also observed the discharge on the eastern shoreline, which appeared momentarily, and then stopped. I went to the parking lot by ABC Carpet, but by them there was no floatables/foam from the discharge, so could not locate the pipe amongst the brushy and inacessible shoreline. Will refer latter complaint to DOW/DEP for outfall investigation. Spill closed - end "
Remarks:	"Oil slick found on shoreline of river, going into river with tide."

All Materials:

Site ID:	351408
Operable Unit ID:	1108926
Operable Unit:	01
Material ID:	2098901
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Oxygenate:	Not reported

F31 **VAULT 1744** **NY Spills** **S107409212**
SSW **EDGEWATER RD AND WESTCHESTER AVE** **N/A**
< 1/8 **BRONX, NY**
0.085 mi.
451 ft. **Site 3 of 7 in cluster F**

Relative:
Higher

Actual:
37 ft.

SPILLS:

Facility ID:	0507685
Facility Type:	ER
Spill Number:	0507685
DER Facility ID:	300436
Site ID:	353141
DEC Region:	2
Closed Date:	2007-05-03
Spill Cause:	Equipment Failure
Spill Class:	C4

VAULT 1744 (Continued) **S107409212**

SWIS:	0301
Spill Date:	2005-09-27
Investigator:	GDBREEN
Referred To:	Not reported
Reported to Dept:	2005-09-27
CID:	77
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2005-09-27
Spill Record Last Update:	2007-05-03
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller Company:	999
Contact Name:	ERT DESK’
DEC Memo:	"05/03/07 - See e-docs for Con Ed report detailing cleanup and closure. 161244. 27-Sep-2005 04:45 hrs. FOD Operating Supervisor, Bill Reschke (11649) while placing protective grounds on another location near V-1744, located e/s Edgewater Road 985’ s/o Westchester Ave, Bronx, NY reports finding ~ 10 gallons of dielectric fluid has leaked out of an abandoned Pad Mounted transformer (V-1744) onto asphalt and soil. No fire/smoke is/was involved. No sewers/waterways were affected. There were no injuries. This is on the property of theTransit Mix Concrete Company that has gone out of business. An area of asphalt ~ 15’ x 75’ is affected. Additional crews have spread absorbant speedi-dri over the entire area to absorb the oil. A puddle (25’ x 15’) of oil & water has gathered at the bottom of the hill. An 80’ piece of absorbant boom has been deployed around the pool to contain it. A oil sample has been taken for PCB on chain of custudy (ee-04778). An environmental tag #43612 has been placed on the pad mount transformer. The clean up will continue as more crews are assembled at the start of the 7-3 shift. L Fischer 55784 "
Remarks:	"ABANDONED TRANSFORMER, FAULTY EQUIPMENT. NO TO 5 QUESTION. CLEAN-UP IS IN PROGRESS. 161244."

All Materials:

Site ID:	353141
Operable Unit ID:	1110608
Operable Unit:	01
Material ID:	2100645
Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

F32
SSW
< 1/8
0.085 mi.
451 ft.

ROADWAY
WESTCHESTER AVE AND SHERIDAN EXPRESS
BRONX, NY

Site 4 of 7 in cluster F

NY Spills **S121119588**
N/A

Relative:
Higher

Actual:
37 ft.

SPILLS:

Facility ID:	1706759
Facility Type:	ER
Spill Number:	1706759
DER Facility ID:	514704
Site ID:	561082
DEC Region:	2
Closed Date:	2017-10-11
Spill Cause:	Traffic Accident
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2017-10-11
Investigator:	vszhune
Referred To:	Not reported
Reported to Dept:	2017-10-11
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2017-10-11
Spill Record Last Update:	2017-10-11
Spiller Name:	XI CHEN
Spiller Company:	MTA
Spiller Address:	WESTCHESTER AVE AND SHERIDAN EXPRESS
Spiller Company:	999
Contact Name:	XI CHEN
DEC Memo:	"10/11/17-Zhune spoke to DEP HAZMAT-Xi Cheng 646-763-2597. AS per Xi a overhead train spilled approximately 15 gallons of diesel fuel onto the roadway. MTA cleaned the spill. He called Sanitation Department. Spill cleaned. Spill closed."
Remarks:	"subway accident clean up is on going"

All Materials:

Site ID:	561082
Operable Unit ID:	1309068
Operable Unit:	01
Material ID:	2316137
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

F33 **CON EDISON - SERVICE BOX M6895** **NY MANIFEST** **S120958433**
SSW **WESTCHESTER AVE & EDGEWATER RD** **N/A**
< 1/8 **BRONX, NY 10459**
0.085 mi.
451 ft. **Site 5 of 7 in cluster F**

Relative:
Higher

Actual:
37 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004936944
Facility Status:	Not reported
Location Address 1:	WESTCHESTER AVE & EDGEWATER RD
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004936944
Mailing Name:	CON EDISON - SERVICE BOX M6895
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL 15TH FL NE
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

I34 **CON EDISON** **NY MANIFEST** **S117067187**
SW **1314 WEST FARMS ROAD** **N/A**
< 1/8 **BRONX, NY 10459**
0.086 mi.
453 ft. **Site 1 of 6 in cluster I**

Relative:
Higher

Actual:
35 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004599288
Facility Status:	Not reported
Location Address 1:	1314 WEST FARMS ROAD
Code:	BP
Location Address 2:	SB 14354
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004599288
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported

CON EDISON (Continued) **S117067187**

Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/17/2014
Trans1 Recv Date:	07/17/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/18/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004599288
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503635GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

CON EDISON (Continued) **S117067187**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

I35 **NYCHA - WEST FARMS ROAD REHAB** **RCRA-CESQG** **1010566479**
SW **1323 W FARMS RD** **NJ MANIFEST** **NYR000151274**
< 1/8 **BRONX, NY 10455** **NY MANIFEST**
0.086 mi.
454 ft. **Site 2 of 6 in cluster I**

Relative:
Higher

Actual:
35 ft.

RCRA-CESQG:

Date form received by agency:	10/16/2007
Facility name:	NYCHA - WEST FARMS ROAD REHAB
Facility address:	1323 W FARMS RD BRONX, NY 10455
EPA ID:	NYR000151274
Mailing address:	49TH AVE NYCHA LONG ISLAND CITY, NY 11101
Contact:	ANTHONY N SOLOMITA
Contact address:	49TH AVE NYCHA LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	718-707-5731
Contact email:	7187075266
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	NEW YORK CITY HOUSING AUTHORITY
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	08/31/1986
Owner/Op end date:	Not reported

Owner/operator name:	NEW YORK CITY HOUSING AUTHORITY
Owner/operator address:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: 08/31/1986
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 10/15/2007
Site name: NYCHA - WEST FARMS ROAD REHAB
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NJ MANIFEST:
EPA Id: NYR000151274
Mail Address: 49TH AVE
Mail City/State/Zip: LONG ISLAND CITY, NY 11101
Facility Phone: Not reported
Emergency Phone: Not reported
Contact: ANTHONY N SOLOMITA
Comments: Not reported
SIC Code: Not reported
County: NY005
Municipal: Not reported
Previous EPA Id: Not reported
Gen Flag: Not reported
Trans Flag: Not reported
TSDF Flag: Not reported
Name Change: Not reported
Date Change: Not reported

Manifest:

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Manifest Number:	003531672JJK
EPA ID:	NYR000151274
Date Shipped:	06/27/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/27/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/27/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200 P

Manifest Number:	001028570JJK
EPA ID:	NYR000151274
Date Shipped:	07/15/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/15/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/15/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	60 P

Manifest Number:	001031231JJK
EPA ID:	NYR000151274
Date Shipped:	05/23/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/23/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/23/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	55 G

Manifest Number:	003532000JJK
EPA ID:	NYR000151274
Date Shipped:	08/01/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/01/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/01/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	150 P

Manifest Number:	001031927JJK
EPA ID:	NYR000151274
Date Shipped:	05/09/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/09/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/09/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	80 P

Manifest Number:	003634918JJK
EPA ID:	NYR000151274
Date Shipped:	04/25/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/25/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/25/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	60 P

Manifest Number:	003634823JJK
EPA ID:	NYR000151274

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Shipped:	04/18/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/18/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/18/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200 P

Manifest Number:	003636612JJK
EPA ID:	NYR000151274
Date Shipped:	03/14/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/14/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/14/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	120 P

Manifest Number:	001026780JJK
EPA ID:	NYR000151274
Date Shipped:	11/16/2007
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/16/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/16/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Manifest Number:	001028524JJK
EPA ID:	NYR000151274
Date Shipped:	08/08/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/08/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/08/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	55 G

Manifest Number:	003535512JJK
EPA ID:	NYR000151274
Date Shipped:	11/02/2007
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/02/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/02/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Manifest Number:	003531920JJK
EPA ID:	NYR000151274
Date Shipped:	07/18/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/18/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/18/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200 P

Manifest Number:	003531735JJK
EPA ID:	NYR000151274
Date Shipped:	06/13/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/13/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/13/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	55 G

Manifest Number:	003535545JJK
EPA ID:	NYR000151274
Date Shipped:	11/09/2007
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/09/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/09/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Manifest Number:	001026943JJK
EPA ID:	NYR000151274
Date Shipped:	03/20/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/20/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/20/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Hand Code:	H111
Quantity:	250 P

Manifest Number:	003531881JJK
EPA ID:	NYR000151274
Date Shipped:	07/11/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/11/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/11/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	250 P

Manifest Number:	003531615JJK
EPA ID:	NYR000151274
Date Shipped:	06/06/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/06/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/06/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	280 P

Manifest Number:	003634622JJK
EPA ID:	NYR000151274
Date Shipped:	11/30/2007
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/30/2007
Date Trans2 Transported Waste:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/30/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Manifest Number:	003536864JJK
EPA ID:	NYR000151274
Date Shipped:	11/26/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/26/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/26/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	60 G

Manifest Number:	003531483JJK
EPA ID:	NYR000151274
Date Shipped:	04/11/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/11/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/11/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	100 P

NY MANIFEST:

Country:	USA
EPA ID:	NYR000151274
Facility Status:	Not reported
Location Address 1:	1323 WEST FARMS ROAD
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10451
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000151274
Mailing Name:	NYCHA - WEST FARMS ROAD REHAB
Mailing Contact:	RANKO VURADINOVIC
Mailing Address 1:	23-02 49th AVE
Mailing Address 2:	Not reported
Mailing City:	LONG ISLAND CITY
Mailing State:	Ny
Mailing Zip:	11101
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2123062954

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2008
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	11/26/2008
Trans1 Recv Date:	11/26/2008
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/26/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000151274
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	003536864JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H111
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	60.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

E36 **LOT 44,TAXBLOCK 3009** **NY E DESIGNATION** **S111378030**
NW **1015 EAST 172 STREET** **N/A**
< 1/8 **BRONX, NY**
0.086 mi.
456 ft. **Site 3 of 10 in cluster E**

Relative: **Higher**
Actual: **35 ft.**

E DESIGNATION:

Tax Lot(s):	44
Tax Block:	3009
Borough Code:	Not reported
E-No:	E-277
Effective Date:	10/5/2011
Satisfaction Date:	Not reported
Ceqr Number:	10DCP017X
Ulurp Number:	100310ZMX
Zoning Map No:	3d
Description:	Air Quality - #2 Fuel Oil or Natural Gas for heating, ventilating and air conditioning systems
Lot Remediation Date:	Not reported
Description:	Exhaust stack location limitations
Lot Remediation Date:	Not reported
Description:	Hazardous Materials* Phase I and Phase II Testing Protocol
Lot Remediation Date:	Not reported
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

F37 **WESTCHESTER OFF RAMP** **NY Spills** **S108636059**
SSW **SHERIDAN EXPRESSWAY** **N/A**
< 1/8 **BRONX, NY**
0.087 mi.
458 ft. **Site 6 of 7 in cluster F**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	0700426
Facility Type:	ER
Spill Number:	0700426
DER Facility ID:	329261
Site ID:	379768
DEC Region:	2
Closed Date:	2007-04-13
Spill Cause:	Traffic Accident
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2007-04-13
Investigator:	jbvought
Referred To:	Not reported
Reported to Dept:	2007-04-13
CID:	444
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2007-04-13
Spill Record Last Update:	2007-04-13
Spiller Name:	Not reported
Spiller Company:	CARDING SANITATION
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	ISABELLA CARDING
DEC Memo:	"04/13/07-Vought-Off hours responder. Vought called and spoke to FF Sanacore and spill did enter catch basin and DEP notified. Spill cleaned using speedy dry. Small impact to drain but no adjacent waterways."
Remarks:	"GARBAGE TRUCK ROLLED OVER AND SPILLED DIESEL- STORM DRAIN HAS BEEN DIKED OFF"

All Materials:

Site ID:	379768
Operable Unit ID:	1137259
Operable Unit:	01
Material ID:	2127212
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

F38
SSW
< 1/8
0.087 mi.
458 ft.

SHERATON EXPRESSWAY
SERVICE RD&WESTCHESTER AV
BRONX, NY

Site 7 of 7 in cluster F

NY Spills **S102446711**
N/A

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	9611127
Facility Type:	ER
Spill Number:	9611127
DER Facility ID:	137845
Site ID:	163422
DEC Region:	2
Closed Date:	1998-06-03
Spill Cause:	Traffic Accident
Spill Class:	C4
SWIS:	0301
Spill Date:	1996-12-09
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	1996-12-09
CID:	211
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-12-09
Spill Record Last Update:	1998-06-03
Spiller Name:	Not reported
Spiller Company:	CON ED
Spiller Address:	4 IRVING PLACE
Spiller Company:	001
Contact Name:	PAT MCHUGH
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL "
Remarks:	"OVER TURNED BUCKET TRUCK CAUSED PRODUCT TO SPILL / CLEAN UP CREW ON WAY"

All Materials:

Site ID:	163422
Operable Unit ID:	1039156
Operable Unit:	01
Material ID:	566757
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

J39 **PRIVATE RESIDENCE** **NY Spills** **S110139489**
ESE **1277 BRONX RIVER AVE** **N/A**
< 1/8 **BRONX, NY**
0.091 mi.
483 ft. **Site 1 of 2 in cluster J**

Relative:
Higher

Actual:
30 ft.

SPILLS:

Facility ID:	0910947
Facility Type:	ER
Spill Number:	0910947
DER Facility ID:	372630
Site ID:	423722
DEC Region:	2
Closed Date:	Not reported
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2010-01-10
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2010-01-11
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	2010-01-11
Spill Record Last Update:	2011-09-23
Spiller Name:	MARAYLN SILVA
Spiller Company:	MARAYLN SILVA
Spiller Address:	1277 BRONX RIVER AVE
Spiller Company:	999
Contact Name:	MARAYLN SILVA
DEC Memo:	" Delivery lasto ccured on 12-31-09. Tank is a vaulted 550. Oil co got service call last night at 11pm. Tank was empty on inspection. Subsurface return line assumed to be leaking. No odors in basement. Above ground line installed. Oil was put in tank. This am. oil was in tank. I spoke with Ms. Silva and instructed her to contact ins. co. as a substantial release may have occured. CSL letter sent and faxed. 9/23/11- 2nd csl letter sent."
Remarks:	"Caller reporting a leak of an unknown amount of #2 fuel oil to soil. Caller reporting a leak in basement, which he belives went to soil. Clean up pending."

All Materials:

Site ID:	423722
Operable Unit ID:	1179529
Operable Unit:	01
Material ID:	2173254
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G

PRIVATE RESIDENCE (Continued) **S110139489**

Recovered: Not reported
Oxygenate: Not reported

J40 **CONSOLIDATED EDISON** **NY MANIFEST** **1009241870**
SE **1267 BRONX RIVER AVE MH1622** **N/A**
< 1/8 **BRONX, NY**
0.092 mi.
484 ft. **Site 2 of 2 in cluster J**

Relative:
Higher

Actual:
29 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004104113
Facility Status: Not reported
Location Address 1: 1267 BRONX RIVER AVE MH1622
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: Not reported
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004104113
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLIN MURRAY
Mailing Address 1: 4 IRVING PLACE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124602808

NY MANIFEST:
Document ID: NYE0629235
Manifest Status: Not reported
seq: 01
Year: 2002
Trans1 State ID: 74794AU
Trans2 State ID: 96590JE
Generator Ship Date: 10/30/2002
Trans1 Recv Date: 10/30/2002
Trans2 Recv Date: 10/31/2002
TSD Site Recv Date: 11/04/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004104113
Trans1 EPA ID: NYD006982359
Trans2 EPA ID: NYD006982359
TSDF ID 1: NYD077444263
TSDF ID 2: Not reported
Manifest Tracking Number: Not reported
Import Indicator: Not reported
Export Indicator: Not reported
Discr Quantity Indicator: Not reported

CONSOLIDATED EDISON (Continued) **1009241870**

Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00341
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

K41 **SHERIDAN GARAGE CORP.** **NY AST** **A100395519**
SSW **1040 FREEMAN STREET** **N/A**
< 1/8 **BRONX, NY 10459**
0.093 mi.
492 ft. **Site 1 of 6 in cluster K**

Relative: **Higher**
Actual: **37 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-612337
Program Type:	PBS
UTM X:	593871.62170
UTM Y:	4520319.73400
Expiration Date:	12/30/2019
Site Type:	Auto Service/Repair (No Gasoline Sales)

Affiliation Records:

Site Id:	502992
Affiliation Type:	Facility Owner
Company Name:	BRADFORD SWETT MGMT LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2723 LURTING AVE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10469
Country Code:	001
Phone:	(718) 378-7688
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR

SHERIDAN GARAGE CORP. (Continued) **A100395519**

Date Last Modified: 2014-12-30

Site Id: 502992
Affiliation Type: Mail Contact
Company Name: SHERIDAN GARAGE CORP.
Contact Type: Not reported
Contact Name: GUILLERMINA MARTINEZ
Address1: 1040 FREEMAN STREET
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10459
Country Code: 001
Phone: (718) 378-7688
EMail: SHERIDANCORP@GMAIL.COM
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-12-30

Site Id: 502992
Affiliation Type: Facility Operator
Company Name: SHERIDAN GARAGE CORP.
Contact Type: Not reported
Contact Name: GUILLERMINA MARTINEZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 378-7688
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-12-16

Site Id: 502992
Affiliation Type: Emergency Contact
Company Name: BRADFORD SWETT MGMT LLC
Contact Type: Not reported
Contact Name: GUILLERMINA MARTINEZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 378-7688
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-12-16

Tank Info:

Tank Number: 001
Tank Id: 253922

SHERIDAN GARAGE CORP. (Continued) **A100395519**

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
K01 - Spill Prevention - Catch Basin
J02 - Dispenser - Suction Dispenser

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/2000
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

H42 **LETTERA SIGN & ELECTRIC CO INC** **RCRA-SQG** **1000393855**
SSE **1209 BRONX RIVER AVE** **NY MANIFEST** **NYD001345529**
< 1/8 **BRONX, NY 10472**
0.094 mi.
494 ft. **Site 3 of 8 in cluster H**

Relative:
Higher

Actual:
20 ft.

RCRA-SQG:

Date form received by agency:	01/01/2007
Facility name:	LETTERA SIGN & ELECTRIC CO INC
Facility address:	1209 BRONX RIVER AVE BRONX, NY 10472
EPA ID:	NYD001345529
Mailing address:	BRONX RIVER AVE BRONX, NY 10472
Contact:	Not reported
Contact address:	BRONX RIVER AVE BRONX, NY 10472
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

LETTERA SIGN & ELECTRIC CO INC (Continued) **1000393855**

Owner/Operator Summary:
Owner/operator name: WEST SIDE NEON SIGN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: WEST SIDE NEON SIGN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: LETTERA SIGN & ELECTRIC CO INC
Classification: Small Quantity Generator

Date form received by agency: 03/24/1995
Site name: LETTERA SIGN & ELECTRIC CO INC
Classification: Not a generator, verified

Date form received by agency: 07/10/1987
Site name: LETTERA SIGN & ELECTRIC CO INC
Classification: Small Quantity Generator

LETTERA SIGN & ELECTRIC CO INC (Continued) **1000393855**

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/19/1991
Date achieved compliance: 05/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/14/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/13/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/03/1995
Evaluation lead agency: State

NY MANIFEST:
Country: USA
EPA ID: NYP004671046
Facility Status: Not reported
Location Address 1: 1209 BRONX RIVER AVE
Code: BP
Location Address 2: TM 40
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10472
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004671046
Mailing Name: CON ED
Mailing Contact: TOM TEELING

LETTERA SIGN & ELECTRIC CO INC (Continued) **1000393855**

Mailing Address 1:	4 IRVING PLACE
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	10/02/2014
Trans1 Recv Date:	10/02/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/03/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004671046
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	013255752JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

LETTERA SIGN & ELECTRIC CO INC (Continued) **1000393855**

Country:	USA
EPA ID:	NYD001345529
Facility Status:	Not reported
Location Address 1:	1209 BRONX RIVER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD001345529
Mailing Name:	INFINITY SIGN & ELECTRIC (FORMER LETTERA)
Mailing Contact:	MICHAEL LETTERA
Mailing Address 1:	1209 BRONX RIVER AVENUE
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10472
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7189911000

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	CT5000001495
Trans2 State ID:	Not reported
Generator Ship Date:	02/25/2015
Trans1 Recv Date:	02/25/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/25/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD001345529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	CT5000001495
TSDF ID 2:	Not reported
Manifest Tracking Number:	014040008JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	Y
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H010
Waste Code:	Not reported
Waste Code:	Not reported

LETTERA SIGN & ELECTRIC CO INC (Continued) **1000393855**

Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	786
Units:	P - Pounds
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Waste Code:	D009
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

D43 **LOT 38,TAXBLOCK 3009** **NY E DESIGNATION** **S111377986**
NNW **1529 BOONE AVENUE** **N/A**
< 1/8 **BRONX, NY 10460**
0.096 mi.
509 ft. **Site 4 of 4 in cluster D**

Relative:
Higher

Actual:
35 ft.

E DESIGNATION:

Tax Lot(s):	38
Tax Block:	3009
Borough Code:	BX
E-No:	E-277
Effective Date:	10/5/2011
Satisfaction Date:	Not reported
Ceqr Number:	10DCP017X
Ulurp Number:	100310ZMX
Zoning Map No:	3d
Description:	Air Quality - #2 Fuel Oil or Natural Gas for heating, ventilating and air conditioning systems
Lot Remediation Date:	Not reported
Description:	Exhaust stack location limitations
Lot Remediation Date:	Not reported
Description:	Hazardous Materials* Phase I and Phase II Testing Protocol
Lot Remediation Date:	Not reported
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

I44 **WEST FARMS ESTATES** **NY UST** **U000395117**
SW **1310 WEST FARMS ROAD** **N/A**
< 1/8 **BRONX, NY 10459**
0.097 mi.
510 ft. **Site 3 of 6 in cluster I**

Relative:
Higher

Actual:
37 ft.

UST:

Id/Status:	2-092606 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	593833.14552
UTM Y:	4520429.93918
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	2397
Affiliation Type:	Facility Owner
Company Name:	WEST FARMS ESTATES % METROPOLITAN REALTY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	60 CUTTERMILL ROAD, SUITE 200
Address2:	Not reported
City:	GREAT NECK
State:	NY
Zip Code:	11021
Country Code:	001
Phone:	(212) 835-9040
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-08-15

Site Id:	2397
Affiliation Type:	Mail Contact
Company Name:	60 CUTTERMILL ROAD
Contact Type:	Not reported
Contact Name:	SCOTT JAFFEE
Address1:	SUITE 200
Address2:	Not reported
City:	GREAT NECK
State:	NY
Zip Code:	11021
Country Code:	001
Phone:	(212) 835-9040
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-08-15

Site Id:	2397
Affiliation Type:	Facility Operator
Company Name:	WEST FARMS ESTATES
Contact Type:	Not reported
Contact Name:	METROPOLITAN REALTY GROUP
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

WEST FARMS ESTATES (Continued) **U000395117**

Zip Code:	Not reported
Country Code:	001
Phone:	(212) 835-9040
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-02-15

Site Id:	2397
Affiliation Type:	Emergency Contact
Company Name:	W FARMS EST CO. C/O METROPOLITAN RLTY GROUP.
Contact Type:	Not reported
Contact Name:	SCOTT JAFFEE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 835-9040
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-02-15

Tank Info:

Tank Number:	001
Tank ID:	4237
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	20000
Install Date:	12/01/1979
Date Tank Closed:	07/25/2014
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	21
Date Test:	01/08/2008
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I05 - Overfill - Vent Whistle
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

WEST FARMS ESTATES (Continued) **U000395117**

D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None

L45 **PUBLIC SCHOOL 66 - BRONX (X066)** **NY AST** **A100173627**
West **1001 JENNINGS STREET** **N/A**
< 1/8 **BRONX, NY 10460**
0.098 mi.
518 ft. **Site 1 of 3 in cluster L**

Relative:
Higher

Actual:
38 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-604868
Program Type:	PBS
UTM X:	593837.21456
UTM Y:	4520622.78487
Expiration Date:	12/04/2020
Site Type:	School

Affiliation Records:

Site Id:	26737
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY DEPT. OF EDUCATION
Contact Type:	MANAGER, FUEL DIVISION
Contact Name:	MUNENDRA SHARMA
Address1:	44-36 VERNON BOULEVARD
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2018-08-22

Site Id:	26737
Affiliation Type:	Mail Contact
Company Name:	NEW YORK CITY DEPT. OF EDUCATION
Contact Type:	Not reported
Contact Name:	MUNENDRA SHARMA
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2:	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2017-07-31

Site Id:	26737
Affiliation Type:	Facility Operator

PUBLIC SCHOOL 66 - BRONX (X066) (Continued) **A100173627**

Company Name:	PUBLIC SCHOOL 66 - BRONX (X066)
Contact Type:	Not reported
Contact Name:	TONI CUBI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-5696
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-09-28

Site Id:	26737
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY DEPT. OF EDUCATION
Contact Type:	Not reported
Contact Name:	KEN MAHADEO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 210-7918
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-11

Tank Info:

Tank Number:	001
Tank Id:	59035
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

E00 - Piping Secondary Containment - None
I02 - Overfill - High Level Alarm
K00 - Spill Prevention - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G02 - Tank Secondary Containment - Vault (w/access)
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron

PUBLIC SCHOOL 66 - BRONX (X066) (Continued) **A100173627**

Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	05/01/2000
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

L46 **NYCSCA - PUBLIC SCHOOL 66** **RCRA-SQG** **1004755785**
West **1001 JENNINGS ST** **NY MANIFEST** **NY0000375709**
< 1/8 **BRONX, NY 10460**
0.098 mi.
518 ft. **Site 2 of 3 in cluster L**

Relative:
Higher

Actual:
38 ft.

RCRA-SQG:

Date form received by agency:	05/25/2017
Facility name:	NYCSCA - PUBLIC SCHOOL 66
Facility address:	1001 JENNINGS ST BRONX, NY 10460
EPA ID:	NY0000375709
Mailing address:	E SECOND ST SCOTCH PLAINS, NJ 07076
Contact:	GARY PALLADINO
Contact address:	E SECOND ST SCOTCH PLAINS, NJ 07076
Contact country:	US
Contact telephone:	908-322-3000
Contact email:	ABATECH@VERIZON.NET
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NYCSCA
Owner/operator address:	THOMPSON AVE LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	09/10/1962
Owner/Op end date:	Not reported
Owner/operator name:	GARY PALLADINO
Owner/operator address:	Not reported

NYCSCA - PUBLIC SCHOOL 66 (Continued) **1004755785**

Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: 08/30/2008
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 03/20/2009
Site name: NYCSCA - PUBLIC SCHOOL 66
Classification: Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 01/01/2007
Site name: NYC BD OF ED - PUBLIC SCHOOL 66 BRONX
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Site name: NYC BD OF ED - PUBLIC SCHOOL 66 BRONX
Classification: Not a generator, verified

Date form received by agency: 07/27/1995
Site name: NYC BD OF ED - PUBLIC SCHOOL 66 BRONX
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

NYCSCA - PUBLIC SCHOOL 66 (Continued) **1004755785**

Violation Status: No violations found

NY MANIFEST:
Country: USA
EPA ID: NY0000375709
Facility Status: Not reported
Location Address 1: PS-66
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NY0000375709
Mailing Name: NEW YORK CITY B O E
Mailing Contact: JACK BRUCCULERI
Mailing Address 1: 30-30 THOMPSON AVE
Mailing Address 2: Not reported
Mailing City: LONG ISLAND CITY
Mailing State: NY
Mailing Zip: 11101
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7183495600

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 12/20/2014
Trans1 Recv Date: 12/20/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/03/2015
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0000375709
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: MAC300017498
TSDF ID 2: Not reported
Manifest Tracking Number: 000975891VES
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N
Discr Type Indicator: N
Discr Residue Indicator: N
Discr Partial Reject Indicator: N
Discr Full Reject Indicator: N
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: H039

NYCSCA - PUBLIC SCHOOL 66 (Continued) **1004755785**

Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	36
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	11
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Waste Code:	Not reported
Waste Code 1_2:	B007
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

K47 **AMBUTRANS HOLDING CORP.** **NY UST** **U000395537**
SW **1028 FREEMAN STREET** **NY Spills** **N/A**
< 1/8 **BRONX, NY 10459**
0.099 mi.
524 ft. **Site 2 of 6 in cluster K**

Relative: **Higher**
Actual: **46 ft.**

UST:

Id/Status:	2-110582 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	593876.96892
UTM Y:	4520330.13083
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id:	3392
Affiliation Type:	Facility Owner
Company Name:	AMBUTRANS HOLDING CORP.
Contact Type:	Not reported
Contact Name:	JOHN WEIR
Address1:	1028 FREEMAN STREET
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(631) 317-4786
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-01-04

Site Id:	3392

AMBUTRANS HOLDING CORP. (Continued) **U000395537**

Affiliation Type:	Mail Contact
Company Name:	AMBUTRANS HOLDING CORP.
Contact Type:	Not reported
Contact Name:	JOHN WEIR
Address1:	1028 FREEMAN STREET
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(631) 317-4786
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-01-04

Site Id:	3392
Affiliation Type:	Facility Operator
Company Name:	AMBUTRANS HOLDING CORP.
Contact Type:	Not reported
Contact Name:	MEDICAL EXPRESS AMBULANCE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(631) 317-4786
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-01-04

Site Id:	3392
Affiliation Type:	Emergency Contact
Company Name:	AMBUTRANS HOLDING CORP.
Contact Type:	Not reported
Contact Name:	JOHN WEIR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(631) 317-4786
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-01-04

Tank Info:

Tank Number:	001
Tank ID:	4845
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000

AMBUTRANS HOLDING CORP. (Continued) **U000395537**

Install Date:	05/01/1985
Date Tank Closed:	03/01/2006
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	00
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I01 - Overfill - Float Vent Valve
C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None

SPILLS:

Facility ID:	0302597
Facility Type:	ER
Spill Number:	0302597
DER Facility ID:	171947
Site ID:	207170
DEC Region:	2
Closed Date:	2006-04-10
Spill Cause:	Other
Spill Class:	D4
SWIS:	0301
Spill Date:	2003-06-11
Investigator:	jdjarrat
Referred To:	Not reported
Reported to Dept:	2003-06-11
CID:	257
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Tank Tester
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2003-06-11
Spill Record Last Update:	2006-04-10
Spiller Name:	RON OGRADY
Spiller Company:	MEDEX
Spiller Address:	1028 FREEMAN STREET
Spiller Company:	001

AMBUTRANS HOLDING CORP. (Continued) **U000395537**

Contact Name: RON OGRADY
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL Sangesland DDO Sent TTF letter modified to read Line Test Failure 12/10/03 mt/// Transferred from Tipple to Rommel 7/15/05 Transferred to Jarratt (co) Fenley & Nicol contacted about latest status of line failure - awaiting response. 10/3/05 Brian McCabe of Fenley & Nicol contacted for information. (631) 586-4900 ext. 191 2/27/06 Igor Goldstein of GC Engineering will remove tank and file report. 4/10/06 Report received. Spill closed."
Remarks: "line test failure"

All Materials:
Site ID: 207170
Operable Unit ID: 870332
Operable Unit: 01
Material ID: 507065
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

I48 **1013 FREEMAN STREET** **NY UST** **U001841321**
SW **1013 FREEMAN STREET** **N/A**
< 1/8 **BRONX, NY 10459**
0.101 mi.
531 ft. **Site 4 of 6 in cluster I**

Relative: UST:
Higher
Actual: Id/Status: 2-600152 / Inactive
40 ft. Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 593845.09615
UTM Y: 4520370.90126
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 22137
Affiliation Type: Facility Owner
Company Name: WEST FARMS ESTATES CO
Contact Type: Not reported
Contact Name: Not reported
Address1: 3607 EAST TREMONT AVENUE
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10465
Country Code: 001
Phone: (718) 597-4700
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

1013 FREEMAN STREET (Continued) **U001841321**

Site Id:	22137
Affiliation Type:	Mail Contact
Company Name:	WEST FARMS ESTATES COMPANY, PALEN MGT. CORP.
Contact Type:	Not reported
Contact Name:	GERALD PASAHOW
Address1:	3607 EAST TREMONT AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10465
Country Code:	001
Phone:	(718) 597-4700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	22137
Affiliation Type:	Facility Operator
Company Name:	1013 FREEMAN STREET
Contact Type:	Not reported
Contact Name:	DAVID CRUZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 893-3555
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	22137
Affiliation Type:	Emergency Contact
Company Name:	WEST FARMS ESTATES CO
Contact Type:	Not reported
Contact Name:	GERALD PASAKOW
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 597-4700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	41376
Tank Status:	Tank Converted to Non-Regulated Use
Material Name:	Tank Converted to Non-Regulated Use

1013 FREEMAN STREET (Continued) **U001841321**

Capacity Gallons:	20000
Install Date:	Not reported
Date Tank Closed:	01/09/2001
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	05/14/1998
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating

E49 **CON EDISON** **NJ MANIFEST** **S120672134**
NW **1524 LONGFELLOW AVE** **N/A**
< 1/8 **BRONX, NY 10460**
0.104 mi.
548 ft. **Site 4 of 10 in cluster E**

Relative:
Higher

Actual:
37 ft.

NJ MANIFEST:

EPA Id:	NYP004786695
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002661100GBF
EPA ID:	NYP004786695
Date Shipped:	5/27/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

CON EDISON (Continued) **S120672134**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

E50 **CON EDISON** **RCRA NonGen / NLR** **1019903529**
NW **1524 LONGFELLOW AVE** **FINDS** **NYP004786695**
< 1/8 **BRONX, NY 10460** **ECHO**
0.104 mi.
548 ft. **Site 5 of 10 in cluster E**

Relative:
Higher

Actual:
37 ft.

RCRA NonGen / NLR:

Date form received by agency:	05/27/2015
Facility name:	CON EDISON
Facility address:	1524 LONGFELLOW AVE BRONX, NY 10460
EPA ID:	NYP004786695
Mailing address:	IRVING PL 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator

CON EDISON (Continued) **1019903529**

Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	05/27/2015
Site name:	CON EDISON
Classification:	Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110069666631

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1019903529
Registry ID:	110069666631
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110069666631

E51
NW
< 1/8
0.104 mi.
548 ft.

CON EDISON
1524 LONGFELLOW AVE
BRONX, NY 10460

Site 6 of 10 in cluster E

NY MANIFEST **S118091018**
N/A

Relative:
Higher

Actual:
37 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004786695
Facility Status:	Not reported
Location Address 1:	1524 LONGFELLOW AVE
Code:	BP
Location Address 2:	MH 17629
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004786695
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	05/27/2015
Trans1 Recv Date:	05/27/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/29/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004786695
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002661100GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S118091018**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

K52 **FBHC** **NY UST** **U001834390**
SSW **1 WEST FARMS ROAD** **NY Spills** **N/A**
< 1/8 **BRONX, NY 10460**
0.105 mi.
557 ft. **Site 3 of 6 in cluster K**

Relative: **Higher**
Actual: **39 ft.**

UST:

Id/Status:	2-244635 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	593666.25000
UTM Y:	4520253.00000
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	9480
Affiliation Type:	Facility Owner
Company Name:	WEST FARMS NEIGHBORHOOD HOUSING DEV. FUND CO., INC
Contact Type:	DIRECTOR
Contact Name:	ROBERT DONOVAN
Address1:	1 WEST FARMS SQ PLAZA
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(718) 589-4546
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER

FBHC (Continued) **U001834390**

Date Last Modified: 2012-10-02

Site Id: 9480
Affiliation Type: Mail Contact
Company Name: WEST FARMS NEIGHBORHOOD
Contact Type: Not reported
Contact Name: HENG LY
Address1: HOUSING DEV. FUND CO., INC
Address2: 2751 GRAND CONCOURSE
City: BRONX
State: NY
Zip Code: 10468
Country Code: 001
Phone: (718) 367-3200
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

Site Id: 9480
Affiliation Type: Facility Operator
Company Name: FBHC
Contact Type: Not reported
Contact Name: WEST FARMS HOUSING DEV INC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 589-4546
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

Site Id: 9480
Affiliation Type: Emergency Contact
Company Name: WEST FARMS NEIGHBORHOOD HOUSING DEV. FUND CO., INC
Contact Type: Not reported
Contact Name: LABORN BAIZE
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (347) 614-0153
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

Tank Info:

Tank Number: 002
Tank ID: 11567

FBHC (Continued) **U001834390**

Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	25000
Install Date:	06/01/1972
Date Tank Closed:	11/30/2012
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
A01 - Tank Internal Protection - Epoxy Liner
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None

Tank Number:	100
Tank ID:	11566
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	25000
Install Date:	06/01/1972
Date Tank Closed:	11/30/2012
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None

FBHC (Continued) **U001834390**

J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

SPILLS:

Facility ID:	9601923
Facility Type:	ER
Spill Number:	9601923
DER Facility ID:	58917
Site ID:	60333
DEC Region:	2
Closed Date:	1996-05-09
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	1996-05-08
Investigator:	KATZ
Referred To:	Not reported
Reported to Dept:	1996-05-08
CID:	323
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-05-08
Spill Record Last Update:	1996-05-24
Spiller Name:	UNKNOWN
Spiller Company:	Unknown
Spiller Address:	UNKNOWN
Spiller Company:	999
Contact Name:	SAL MAZELLA
DEC Memo:	""
Remarks:	"FIRE DEPT ON SCENE ATTEMPTING FIND THE SOURCE OF THE SPILL. IN THE BASEMENT OF THE RESIDENCE."

All Materials:

Site ID:	60333
Operable Unit ID:	1029520
Operable Unit:	01
Material ID:	351718
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00

FBHC (Continued) **U001834390**

Oxygenate: Not reported

M53 **STRIP MALL** **NY Spills** **S110140264**
East **1299-1309 BRONX RIVER RD** **N/A**
< 1/8 **BRONX, NY**
0.106 mi.
561 ft. **Site 1 of 2 in cluster M**

Relative: **Higher**

Actual: **31 ft.**

SPILLS:

Facility ID:	0911990
Facility Type:	ER
Spill Number:	0911990
DER Facility ID:	373772
Site ID:	424851
DEC Region:	2
Closed Date:	2010-03-05
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2010-02-11
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	2010-02-12
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-02-12
Spill Record Last Update:	2010-03-05
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	STEVEN MCGINN
DEC Memo:	"03/04/10-Hiralkumar Patel. 12:27 PM:- spoke with Mr. McGinn and asked him to submit investigation report. 03/05/10-Hiralkumar Patel. 2:55 PM:- received phase II report from Mr. McGinn. five soil borings installed to depth of 8 ft bg. no PID readings noted. no anomalies found during GPR survey. collected five soil samples at 0-4 ft interval. minor SVOC and metal contamination found. no VOCs found. case closed."
Remarks:	"soil sampling showed metals and svoc - cleanup pending -"

All Materials:

Site ID:	424851
Operable Unit ID:	1180596
Operable Unit:	01
Material ID:	2174569
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported

STRIP MALL (Continued) **S110140264**

Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

N54 **LOT 37,TAXBLOCK 3009** **NY E DESIGNATION** **S111377978**
NNW **1549 BOONE AVENUE** **N/A**
< 1/8 **BRONX, NY 10460**
0.106 mi.
562 ft. **Site 1 of 6 in cluster N**

Relative:
Higher

Actual:
35 ft.

E DESIGNATION:

Tax Lot(s):	37
Tax Block:	3009
Borough Code:	BX
E-No:	E-277
Effective Date:	10/5/2011
Satisfaction Date:	Not reported
Ceqr Number:	10DCP017X
Ulurp Number:	100310ZMX
Zoning Map No:	3d
Description:	Air Quality - HVAC fuel limited to natural gas
Lot Remediation Date:	Not reported
Description:	Hazardous Materials* Phase I and Phase II Testing Protocol
Lot Remediation Date:	Not reported
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

E55 **MRC 754 E. 161ST ST HDFC** **NY AST** **A100177913**
WNW **1504 LONGFELLOW AVE.** **N/A**
< 1/8 **BRONX, NY 10460**
0.107 mi.
564 ft. **Site 7 of 10 in cluster E**

Relative:
Higher

Actual:
36 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-605595
Program Type:	PBS
UTM X:	593888.49091
UTM Y:	4520751.95042
Expiration Date:	04/06/2021
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	27462
Affiliation Type:	Facility Owner
Company Name:	MRC 754 E 161 ST HDFC
Contact Type:	MANAGING AGENT
Contact Name:	JOEL GENDELS
Address1:	542 MAIN STREET 4TH FLOOR

MRC 754 E. 161ST ST HDFC (Continued) **A100177913**

Address2:	Not reported
City:	NEW ROCHELLE
State:	NY
Zip Code:	10801
Country Code:	001
Phone:	(914) 380-8224
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2018-06-12

Site Id:	27462
Affiliation Type:	Mail Contact
Company Name:	C/O CORNELL PACE INC.
Contact Type:	Not reported
Contact Name:	MRC 754 E 161 ST HDFC
Address1:	542 MAIN STREET
Address2:	4TH FLOOR
City:	NEW ROCHELLE
State:	NY
Zip Code:	10801
Country Code:	001
Phone:	(914) 380-8224
EMail:	CVASQUEZ@CORNELLPACE.COM
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2018-06-12

Site Id:	27462
Affiliation Type:	Facility Operator
Company Name:	MRC 754 E. 161ST ST HDFC
Contact Type:	Not reported
Contact Name:	GARY SMITH 917-416-6873
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(914) 380-8220
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2018-06-12

Site Id:	27462
Affiliation Type:	Emergency Contact
Company Name:	MRC 754 E 161 ST HDFC
Contact Type:	Not reported
Contact Name:	JENNIFER NAVARRO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 380-8254

MRC 754 E. 161ST ST HDFC (Continued) **A100177913**

EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2018-06-12

Tank Info:

Tank Number: 001
Tank Id: 60094
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

E00 - Piping Secondary Containment - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
G10 - Tank Secondary Containment - Impervious Underlayment
K00 - Spill Prevention - None
L99 - Piping Leak Detection - Other
F00 - Pipe External Protection - None
J05 - Dispenser - On Site Heating System (Supply/Return)
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
G02 - Tank Secondary Containment - Vault (w/access)
I05 - Overfill - Vent Whistle

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 01/01/1981
Capacity Gallons: 2000
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: DAFRANCI
Last Modified: 06/12/2018
Material Name: #2 fuel oil (on-site consumption)

O56 **MRC/754 E 161ST HDFC** **NY AST** **A100452206**
WNW **1500 LONGFELLOW AVE.** **N/A**
< 1/8 **BRONX, NY 10460**
0.107 mi.
566 ft. **Site 1 of 7 in cluster O**

Relative:
Higher

Actual:
36 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-605594
Program Type: PBS
UTM X: 593882.94176
UTM Y: 4520738.31871
Expiration Date: 04/06/2021

MRC/754 E 161ST HDFC (Continued) **A100452206**

Site Type: Apartment Building/Office Building

Affiliation Records:

Site Id: 27461
Affiliation Type: Facility Owner
Company Name: MRC/754 E 161ST HDFC
Contact Type: MANAGING AGENT
Contact Name: JOEL GENDELS
Address1: 542 MAIN STREET 4TH FLOOR
Address2: Not reported
City: NEW ROCHELLE
State: NY
Zip Code: 10801
Country Code: 001
Phone: (914) 380-8224
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2018-06-12

Site Id: 27461
Affiliation Type: Mail Contact
Company Name: C/O CORNELL PACE INC
Contact Type: Not reported
Contact Name: MRC/754 E 161ST HDFC
Address1: 542 MAIN STREET
Address2: 4TH FLOOR
City: NEW ROCHELLE
State: NY
Zip Code: 10801
Country Code: 001
Phone: (914) 380-8224
EMail: CVASQUEZ@CORNELLPACE.COM
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2018-06-12

Site Id: 27461
Affiliation Type: Facility Operator
Company Name: MRC/754 E 161ST HDFC
Contact Type: Not reported
Contact Name: GARY SMITH 917-416-6873
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (917) 380-8220
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2018-06-12

Site Id: 27461
Affiliation Type: Emergency Contact
Company Name: MRC/754 E 161ST HDFC
Contact Type: Not reported

MRC/754 E 161ST HDFC (Continued) **A100452206**

Contact Name:	JENNIFER NAVARRO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 380-8254
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2018-06-12

Tank Info:

Tank Number:	001
Tank Id:	60093
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

K00 - Spill Prevention - None
L99 - Piping Leak Detection - Other
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
F00 - Pipe External Protection - None
I05 - Overfill - Vent Whistle
G02 - Tank Secondary Containment - Vault (w/access)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
E00 - Piping Secondary Containment - None
J05 - Dispenser - On Site Heating System (Supply/Return)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1981
Capacity Gallons:	2500
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DAFRANCI
Last Modified:	06/12/2018
Material Name:	#2 fuel oil (on-site consumption)

L57 **MRC/754 E. 161ST HDFC** **NY AST** **A100452205**
WNW **1496 LONGFELLOW AVE.** **N/A**
< 1/8 **BRONX, NY 10460**
0.108 mi.
568 ft. **Site 3 of 3 in cluster L**

Relative:
Higher

Actual:
37 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-605593
Program Type:	PBS
UTM X:	593877.39260
UTM Y:	4520724.68699
Expiration Date:	04/06/2021
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	27460
Affiliation Type:	Facility Owner
Company Name:	MRC 754 E. 161ST ST HDFC
Contact Type:	MANAGING AGENT
Contact Name:	JOEL GENDELS
Address1:	542 MAIN STREET 4TH FLOOR
Address2:	Not reported
City:	NEW ROCHELLE
State:	NY
Zip Code:	10801
Country Code:	001
Phone:	(914) 380-8224
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2018-06-12

Site Id:	27460
Affiliation Type:	Mail Contact
Company Name:	C/O CORNELL PACE INC.
Contact Type:	Not reported
Contact Name:	MRC 754 E. 161ST ST HDFC
Address1:	542 MAIN STREET
Address2:	4TH FLOOR
City:	NEW ROCHELLE
State:	NY
Zip Code:	10801
Country Code:	001
Phone:	(914) 380-8224
EMail:	CVASQUEZ@CORNELLPACE.COM
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2018-06-12

Site Id:	27460
Affiliation Type:	Facility Operator
Company Name:	MRC/754 E. 161ST HDFC
Contact Type:	Not reported
Contact Name:	GARY SMITH (917) 416-6873
Address1:	Not reported
Address2:	Not reported
City:	Not reported

MRC/754 E. 161ST HDFC (Continued) **A100452205**

State: NN
Zip Code: Not reported
Country Code: 001
Phone: (914) 380-8220
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2018-06-12

Site Id: 27460
Affiliation Type: Emergency Contact
Company Name: MRC 754 E. 161ST ST HDFC
Contact Type: Not reported
Contact Name: JENNIFER NAVARRO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (914) 380-8254
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2018-06-12

Tank Info:

Tank Number: 001
Tank Id: 60092
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
E00 - Piping Secondary Containment - None
K00 - Spill Prevention - None
L99 - Piping Leak Detection - Other
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
I05 - Overfill - Vent Whistle
J05 - Dispenser - On Site Heating System (Supply/Return)
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 01/01/1981
Capacity Gallons: 2500
Tightness Test Method: -
Date Test: Not reported

MRC/754 E. 161ST HDFC (Continued) **A100452205**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DAFRANCI
Last Modified:	06/12/2018
Material Name:	#2 fuel oil (on-site consumption)

G58 **THOMAS RES** **NY Spills** **S103829543**
SE **1252 BRONX RIVER AVE** **N/A**
< 1/8 **BRONX, NY**
0.108 mi.
571 ft. **Site 5 of 6 in cluster G**

Relative:
Higher

Actual:
26 ft.

SPILLS:

Facility ID:	9815456
Facility Type:	ER
Spill Number:	9815456
DER Facility ID:	185888
Site ID:	225191
DEC Region:	2
Closed Date:	2004-06-16
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	1999-03-29
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	1999-03-29
CID:	371
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1999-03-29
Spill Record Last Update:	2004-06-21
Spiller Name:	ROSE GUIDO
Spiller Company:	PETRO OIL
Spiller Address:	5560 58TH ST
Spiller Company:	001
Contact Name:	MRS THOMAS
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KRIMGOLD NO SEWERS OR DRAINS, CREW ON ITS WAY FOR CLEAN-UP. SPILL IS ONTO DIRT. 01/26/04 Reassinged from Rommel to Austin 02/17/04: Reassigned from AUSTIN to KRIMGOLD. 6/16/04. Unable to contact owner. Minimal spill. NFA. "
Remarks:	"fitting loosened after making delivery - clean up crew will respond " Not reported

All Materials:

Site ID:	225191
Operable Unit ID:	1076478
Operable Unit:	01
Material ID:	308561

THOMAS RES (Continued) **S103829543**

Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	1.00
Oxygenate:	Not reported

H59 **BRONX RIVER AV/WESTCHESTE** **NY Spills** **S102238491**
SSE **BX RIVER AV/WESTCHESTER** **N/A**
< 1/8 **BRONX, NY**
0.108 mi.
572 ft. **Site 4 of 8 in cluster H**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	9511693
Facility Type:	ER
Spill Number:	9511693
DER Facility ID:	239166
Site ID:	295537
DEC Region:	2
Closed Date:	1995-12-15
Spill Cause:	Abandoned Drums
Spill Class:	C4
SWIS:	0301
Spill Date:	1995-12-13
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	1995-12-15
CID:	323
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Police Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1995-12-15
Spill Record Last Update:	1996-01-18
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	LT MCMAHON
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG CALLED LT. MCMAHON, HE SAID THAT NYCDEP WAS ALSO ON SCENE & HAD DISPOSED OF THE DRUMS."
Remarks:	"DRUM WAS LEFT ON THE STREET CORNER, SPILL WAS SANDED TO CLEAN IT UP. FDNY AND SANITATION WAS ON THE SCENE."

All Materials:

Site ID:	295537
Operable Unit ID:	1022369
Operable Unit:	01

BRONX RIVER AV/WESTCHESTE (Continued) **S102238491**

Material ID:	359021
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	35.00
Units:	G
Recovered:	35.00
Oxygenate:	Not reported

E60 **CON EDISON** **RCRA NonGen / NLR** **1019901510**
NW **1526 LONGFELLOW AVE** **FINDS** **NYP004762779**
< 1/8 **BRONX, NY 10460** **ECHO**
0.109 mi.
573 ft. **Site 8 of 10 in cluster E**

Relative:
Higher

Actual:
37 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/03/2015
Facility name:	CON EDISON
Facility address:	1526 LONGFELLOW AVE BRONX, NY 10460
EPA ID:	NYP004762779
Mailing address:	IRVING PL 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	04/03/2015
Site name:	CON EDISON
Classification:	Large Quantity Generator

CON EDISON (Continued) **1019901510**

Violation Status: No violations found

FINDS:

Registry ID: 110069646057

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1019901510
Registry ID: 110069646057
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110069646057

E61 **CON EDISON** **NY MANIFEST** **S119074145**
NW **1526 LONGFELLOW AVE** **N/A**
< 1/8 **BRONX, NY 10460**
0.109 mi.
573 ft. **Site 9 of 10 in cluster E**

Relative: **Higher**
Actual: **37 ft.**

NY MANIFEST:
Country: USA
EPA ID: NYP004762779
Facility Status: Not reported
Location Address 1: 1526 LONG FELLOW AVE
Code: BP
Location Address 2: M 17629
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004762779
Mailing Name: CON EDISON
Mailing Contact: DENNIS HUACON
Mailing Address 1: 4 IRVING PL 15TH FL
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124603770

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported

CON EDISON (Continued) **S119074145**

seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	04/03/2015
Trans1 Recv Date:	04/03/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/07/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004762779
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002660893GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

E62
NW
< 1/8
0.109 mi.
573 ft.

CON EDISON
1526 LONGFELLOW AVE
BRONX, NY 10460

Site 10 of 10 in cluster E

NJ MANIFEST **S120670028**
N/A

Relative:
Higher

Actual:
37 ft.

NJ MANIFEST:

EPA Id:	NYP004762779
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002660893GBF
EPA ID:	NYP004762779
Date Shipped:	4/3/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported

CON EDISON (Continued) **S120670028**

Date Accepted: Not reported
Manifest Discrepancy Type: Not reported
Data Entry Number: Not reported
Was Load Rejected: NEW YORK, NY 10003
Reason Load Was Rejected: Not reported

H63 **VERIZON** **RCRA NonGen / NLR** **1014395231**
SSE **W CHESTER & BRONX RIVER AVE** **NYP000964940**
< 1/8 **BRONX, NY 10463**
0.109 mi.
573 ft. **Site 5 of 8 in cluster H**

Relative: **Higher**
Actual: **20 ft.**

RCRA NonGen / NLR:
Date form received by agency: 06/18/2009
Facility name: VERIZON
Facility address: W CHESTER & BRONX RIVER AVE
E OF
BRONX, NY 10463
EPA ID: NYP000964940
Mailing address: HANSE AVE
FREEPORT, NY 11520
Contact: BILL IRWIN
Contact address: HANSE AVE
FREEPORT, NY 11520
Contact country: US
Contact telephone: 917-837-3985
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

H64 **NYNEX** **NY MANIFEST** **1009233339**
SSE **BRONX RIV RD & WESTCHESTER AVE** **N/A**
< 1/8 **BRONX, NY 10472**
0.109 mi.
573 ft. **Site 6 of 8 in cluster H**

Relative:
Higher

Actual:
20 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP000913939
Facility Status:	Not reported
Location Address 1:	BRONX RIV RD & WESTCHESTER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP000913939
Mailing Name:	NYNEX
Mailing Contact:	R DEPASO
Mailing Address 1:	1095 AVE OF AMER
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10036
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2123958544

NY MANIFEST:

Document ID:	CTF0204800
Manifest Status:	C
seq:	Not reported
Year:	1994
Trans1 State ID:	P4856WOH
Trans2 State ID:	Not reported
Generator Ship Date:	03/28/1994
Trans1 Recv Date:	03/28/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	03/30/1994
Part A Recv Date:	/ /
Part B Recv Date:	04/08/1994
Generator EPA ID:	NYP000913939
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID 1:	CTD000604488
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported

NYNEX (Continued) **1009233339**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00200
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

H65 **WESTCHESTER @ CLOSE AV/BX** **NY Spills** **S102145604**
SSE **WESTCHESTER AV @ CLOSE AV** **N/A**
< 1/8 **BRONX, NY**
0.109 mi.
573 ft. **Site 7 of 8 in cluster H**

Relative: **Higher**

Actual: **20 ft.**

SPILLS:

Facility ID:	8909355
Facility Type:	ER
Spill Number:	8909355
DER Facility ID:	138223
Site ID:	163893
DEC Region:	2
Closed Date:	1989-12-29
Spill Cause:	Traffic Accident
Spill Class:	Not reported
SWIS:	0301
Spill Date:	1989-12-27
Investigator:	SULLIVAN
Referred To:	Not reported
Reported to Dept:	1989-12-27
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Fire Department
Cleanup Ceased:	1989-12-29
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1990-01-03
Spill Record Last Update:	2002-06-17
Spiller Name:	Not reported
Spiller Company:	M B FUEL OIL CO
Spiller Address:	1281 VIELE AV
Spiller Company:	001
Contact Name:	Not reported

WESTCHESTER @ CLOSE AV/BX (Continued) **S102145604**

DEC Memo: ""
Remarks: "CLEAN UP CONTRACTOR WAS A L EASTMOND, MOST OF THE OIL WAS PUMPED INTO VAC TRUCK, SPEEDY DRY WAS APPLIED & CLEANED UP, CLEANED UP BY SPILLER ON 12/27/89."

All Materials:
Site ID: 163893
Operable Unit ID: 936528
Operable Unit: 01
Material ID: 442518
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1000.00
Units: G
Recovered: .00
Oxygenate: Not reported

H66 **CON EDISON MANHOLE 23574** **RCRA NonGen / NLR** **1015746620**
SSE **BRONX RIVER AVE & CLOSE AVE** **NY MANIFEST** **NYP004246114**
< 1/8 **BRONX, NY 10472**
0.109 mi.
573 ft. **Site 8 of 8 in cluster H**

Relative:
Higher

Actual:
20 ft.

RCRA NonGen / NLR:
Date form received by agency: 02/02/2012
Facility name: CON EDISON MANHOLE 23574
Facility address: BRONX RIVER AVE & CLOSE AVE
BRONX, NY 10472
EPA ID: NYP004246114
Mailing address: 4 IRVING PL, RM 828
NEW YORK, NY 10003
Contact: GINO FRABASILE
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: 914-925-6219
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No

CON EDISON MANHOLE 23574 (Continued) **1015746620**

Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/03/2012
Site name: CON EDISON MANHOLE 23574
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
Country: USA
EPA ID: NYP004246114
Facility Status: Not reported
Location Address 1: BRONX RIVER AVE & CLOSE AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10473
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004246114
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: TOM TEELING
Mailing Address 1: 4 IRVING PLACE - 15TH FLOOR
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124603770

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2012
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported
Generator Ship Date: 01/03/2012
Trans1 Recv Date: 01/03/2012
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/04/2012
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004246114
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NYD980593636
TSDF ID 2: Not reported
Manifest Tracking Number: 003207441FLE
Import Indicator: N
Export Indicator: N

CON EDISON MANHOLE 23574 (Continued) **1015746620**

Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Waste Code:	D008
Waste Code 1_2:	B007
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

P67 **CON EDISON - MANHOLE M14350** **NY Spills** **S104952537**
North **1661 W FARMS RD** **NY MANIFEST** **N/A**
< 1/8 **BRONX, NY 10460**
0.112 mi.
594 ft. **Site 1 of 8 in cluster P**

Relative: **Higher**
Actual: **23 ft.**

SPILLS:

Facility ID:	0011836
Facility Type:	ER
Spill Number:	0011836
DER Facility ID:	113715
Site ID:	131988
DEC Region:	2
Closed Date:	2009-04-09
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	2001-02-02
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	2001-02-02
CID:	397
Water Affected:	Not reported
Spill Source:	Vessel
Spill Notifier:	Other
Cleanup Ceased:	Not reported

CON EDISON - MANHOLE M14350 (Continued) **S104952537**

Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-02-02
Spill Record Last Update:	2009-04-10
Spiller Name:	Not reported
Spiller Company:	DEPT OF SANITATION SITE
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	CALLER
DEC Memo:	"4/2/09 - Austin - Transferred from Needs Reassignment to Patel for further work to remediate and close - end 04/09/09-Hiralkumar Patel. visited site. site has underground oil/water separator. as per site personnel, spill was cleaned out immediately. one-time event. case closed."
Remarks:	"pipe from an oil separator leaked spilling oil. it will be pupmed out on monday."

All Materials:

Site ID:	131988
Operable Unit ID:	833740
Operable Unit:	01
Material ID:	542129
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9810571
Facility Type:	ER
Spill Number:	9810571
DER Facility ID:	211726
Site ID:	131989
DEC Region:	2
Closed Date:	Not reported
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	1998-11-20
Investigator:	AXDORONO
Referred To:	REPORT (03/22/18) REVIEWED
Reported to Dept:	1998-11-20
CID:	382
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False

CON EDISON - MANHOLE M14350 (Continued) **S104952537**

Remediation Phase:	5
Date Entered In Computer:	1998-11-20
Spill Record Last Update:	2018-05-16
Spiller Name:	TONY MARINO
Spiller Company:	DEPT OF SANITATION
Spiller Address:	1661 WEST FARMS RD
Spiller Company:	001
Contact Name:	TONY MARINO
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KOLLEENY WHILE ADVANCING GEOTECH BORING, URS FOUND FREE PRODUCT COMING INTO BOREHOLE, AT 1-2 FOOT DEPTH. ABANDONED BORING. DEC HAS ASKED FOR TIGHTNESS TEST OF NEARBY DIESEL TANK, AND DDC MUST PERFORM SITE SPECIFIC INVESTIGATION TO DETERMINE EXTENT OF CONTAMINATION. TRANSFERRED FROM Y.KRIMGOLD. The spill Lead_DEC Field is I. Islam with effect from 02/02/05. The site is under remediation by LiRo Engineers. -II 4/28/05- Reviewed the quarterly monitoring report(Nov./04-Jan./05). DEC approved NFA for soil and installation of skimmer pump at 3 wells in April, 2003. An absorbent sock has been installed to one well to subside the water level and make it conducive to skimmer operation. Persisting layer of motor oil at 3 wells is a concern and it's mentioned that malfunction of a nearby oil/water separator may be the cause. However EFR is being performed besides monthly checking of water levels and free product thickness and quarterly sampling of groundwater. Over all situation is improving and performance monitoring to continue as usual.- II. 7/27/05- Reviewed the monitoring report (Feb.-Apr./05). Persistent GW contamination in well MW-19 across the East 173rd St. is said to be attributed to off-site source and is not migrating to this site. It is supported by the same time sampling results of the nearby on-site wells MW-13 and MW-11. Persisting layer of motor oil at 3 wells (MW-9, MW-16 & MW-17) is still a concern even though LiRo is performing EFR on them. If the nearby existing oil/water separator malfunctioning is the root cause, then it must be taken with NYCDOS management people to fix it. The above observations and remarks are sent to LiRo & NYCDDC via email. Installed the report in the eDoc folder.- II 10/04/05- Filed the report in the eDoc.- II 3/09/06: This spill transferred from I.Islam to Q.Abidi. 07/11/06: Received email from John Busse of URS inquiring as to status of LiRo's recommendation of spill closure in their Nov. '05 - Mar. '06 monitoring report. Reviewed report and sent back following email: I'm not comfortable closing this spill/site just yet. Report notes that well MW-17 had 0.38 ft. of free product in Dec. 2005, and MW-11 had total VOCs of 462 ppb when last sampled in Aug. 2005 - not that high, but a bit higher than some of sites I've been closing recently that still had residual contamination. LiRo states in report that contamination in MW-11 is not attributable to DOS site, but they present no supporting arguments and well is clearly down-gradient from USTs at site. I suggest that URS gauge all wells for product and depth to water to determine current groundwater flow, collect groundwater samples from selected wells, and perhaps perform a Sensitive Receptor Survey in support of No Further Action request. If this seems reasonable, please put together a brief plan for groundwater sampling - i.e., let me know which wells you intend to sample so I can review them and have some input. If you strongly disagree with this approach, you or Jane should give me a call to discuss. - J. Kolleeny 07/18/06: Received email from John Busse of URS, saying they intend to sample wells MW-1, MW-5, MW-6, MW-8, MW-9,

CON EDISON - MANHOLE M14350 (Continued) **S104952537**

MW-11, MW-16, MW-17, and MW-19, and that groundwater samples will be analyzed for VOCs only. I wrote back email saying list of wells is fine, and reminding them to gauge wells for depth to water/product, determine up-to-date groundwater flow direction and identify presence of free product. - J. Kolleeny 10/27/06 Spill case transferred from S. Kraszewski to J. Maisonave. - JAM 6/21/07 Reviewed Letter submitted by URS dated June 19, 2007. On July 26, 2007, URS gauged site wells and detected free product in well MW-17. A product recovery pump operated on the site, however, since no product was detected in over a year, URS requested to shut the system down. URS requested info from DSNY concerning the oil/water separator system, which appeared to be the source of product in MW-17. DSNY notified URS that all tank systems tested tight. To elimate the possibility that surface runoff was entering the well, URS inspected the well and verified well covers were tight. URS initiated monthy vac truck visits to remove product from MW-17 in Jan. 2007 and at the time measured 7 feet of product. On April 30, 2007 URS sampled the product from the well and from the oil/water separator and determined that it is the same product. URS requested that DSNY inspect the entire oil/water separator system as well as other potential sources such as floor drains, etc. URS will continue monthly vac truck visits. Letter is uploaded to edocs. - JAM 2/28/08 Site Update: Reviewed Product Recovery Reports dated October 18, 2007 and January 24, 2008 submitted by URS. URS has been conducting monthly vac truck visits to address free product observed in MW-17. The level of free product seems to fluctuate with the groundwater levels and free product thickness has been as high as 7 feet and as little as 0.95 feet. URS has analyzed samples from product in the oil/water separator and product in well MW-17. They concluded the product is the same. Tightness tests have been conducted on all the tanks including the oil/water separator and they passed. URS believes there is an active source of the product in well MW-17 and since the tanks and associated lines tested tight, it may be from the floor drains. They have tried to contact DSNY to investigate the source of the free product but have had no response from DSNY. I spoke to Jane Staten at URS. She said there is a new contact at DSNY, Mike Murphy, and she will try and get more information on the oil/water separator. She said they are visiting the site tomorrow for the monthly vac truck visit and they will be gauging all the wells for product. I requested that groundwater samples be collected and analyzed for VOCs and SVOCs from wells MW-03, MW-05, MW-06, MW-08, MW-11, and MW-19 if free product is not present. She agreed and said that they may have to wait until the March 08 visit to sample. I expect a report in March 08. - JAM 5/30/08 Reviewed Free Product Recovery and Quarterly Groundwater Sampling Report for period Jan through Mar 2008. On March 27, 2008 the free product recovery skimmer pumps were removed from MW-03, MW-05, and MW-06. Product recovery was conducted in Feb and Mar 2008. Product was observed then removed from wells MW-01, MW-09 and MW-17 in Feb and MW-01, MW-05, MW-09 and MW-17 in March. As a result wells MW-01, MW-05 and MW-09 will be added to the monthly product recovery program. On Mar 19, 2008, URS sampled wells MW-03, MW-04, MW-07, MW-08, MW-11 and MW-19 and analyzed for VOCs and SVOCs. Well MW-05 was not sampled because free product was observed and MW-06 was not sampled because of an obstruction from the skimmer pump. No VOCs or SVOCs were detected in wells MW-04, MW-07, MW-11, and MW-19. Minor VOC exceedences were detected in MW-03 and MW-08 with total VOC concentrations of 16ppb and 88ppb, respectively.

CON EDISON - MANHOLE M14350 (Continued) **S104952537**

Naphthalene was also in exceedence in MW-08. URS concludes that free product levels in MW-17 are decreasing, however wells MW-01, MW-05 and MW-09 are impacted and will be added to the IRM program. Groundwater results show minor dissolved phase contamination and conclude that free product is not significantly impacting GW. Free product recovery will continue and the product source is still being investigated. The report is uploaded to edocs. - JAM 8/15/08 Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period April through June 2008. Monitoring wells MW-01, MW-05, MW-06, MW-09 and MW-17 are included in the monthly IRM program due to the presence of free product. Groundwater analytical results indicate minor dissolved phase contamination in two wells. Based on fingerprint analysis, the free product in well MW-17 is closely related to hydraulic oil and product in the well and oil water/separator are the same. DASNY performed a tightness test on all tanks including the oil/water separator, and all systems tested tight. No conclusion as to how the product reached the well. URS will continue monthly IRM program and quarterly groundwater sampling. The report is uploaded to eDocs. - JAM. 12/11/08 Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period July through October 2008. Since the product recovery program was initiated, minor amounts of free product was observed in wells MW-01, MW-02, MW-05, MW-06, MW-09 and MW-17. Product thickness in well MW-17 has reduced and was last measured at 0.25 feet in October, 2008. Groundwater analytical results indicate minor dissolved phase VOC contamination in wells MW-08 and MW-11, with Total VOC concentrations of 83ppb and 3ppb, respectively. URS will continue monthly product recovery and quarterly groundwater sampling. The report is uploaded to eDocs. - JAM. 9/17/09 Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period November 2008 through January 2009 dated February 19, 2009. URS detected product in each of the wells monitored except for MW-10. Product thicknesses ranged from 0.01ft to 0,04ft, which is less than 1 inch in every well with one exception: 0.11ft was recorded in Nov 2008 in well MW-2. A vacuum truck was used to evacuate 0.25 gallons of product from each well. No dissolved phase contamination was detected during this monitoring event. Report uploaded to eDocs. Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period February through April 2009 dated May 27, 2009. URS detected product in the following seven wells: MW-01, MW-02, MW-03, MW-05, MW-06, MW-09, and MW-17. Product thickness in most wells was either 0.01 ft of 0.02 ft. Well MW-17 exhibited the greatest amount of product, with 0.03 ft, 0.04 ft and 0.05 ft (all less than 1 inch) between Feb and Apr. A vacuum truck was used to evacuate 0.25 gallons of product from each well. No VOCs or SVOCs exceeded criteria in six of secen groundwater samples: the exception was benzene detected a 3ppb in well MW-11. Report uploaded to eDocs. Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period May through July 2009 dated August 21, 2009. URS detected minor amounts of product, 0.01 ft (1/10-inch) in wells MW-01, MW-03, MW-05, MW-06 and MW-09. Well MW-17 contained 0.04 ft (1/2-inch) and MW-02 contained 0.01 ft, 0.22 ft and 0.72 feet in May, June and July, respectively. The reason for the increase is unknown. The vacuum truck was unavailable for the June monitoring event. In May and July, URS removed approx 0.25 gallons of product from each well. To date 63 gallons of product have been recovered from the site. On July 30, 2009, URS collected groundwater samples and wells MW-08 and MW-11

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showed minor exceedences for Benzene at 4ppb and 2 ppb, respectively. URS states, In July, there was an unexpected increase in product thickness in well MW-02. Future measurements will determine whether this represents a temporary issue or a new problem that requires special attention. URS will continue monthly product recovery and quarterly groundwater sampling. The report is uploaded to eDocs. - JAM. 1/6/10 Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period August through October 2009 dated November 24, 2009. URS detected product in wells MW-01, MW-02, MW-03, MW-05, MW-06 and MW-09 and MW-17. Product thickness in well MW-17 increased to 0.22 ft in October 2009. Product thickness in well MW-02 decreased from a high of 0.72ft in July 2009 to 0.06ft in October 2009. URS removed approx 0.25 gallons of product from each well. To date 67 gallons of product have been recovered from the site. On October 21, 2009, URS collected groundwater samples and the only exceedence was in well MW-11 with a Benzene concentration at 6ppb. URS will continue monthly product recovery and quarterly groundwater sampling. This report is uploaded to eDocs. - JAM 03/08/2010: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period November 2009 through January 2010 dated February 17, 2010. Reviewed the report. URS detected product in 7 wells MW-01, MW-02, MW-03, MW-05, MW-06, MW-09 and MW-17. Product thickness ranged from 0.01' to 0.46' in well MW-17. URS removed approx 0.25 gallons of product from each well. To date 71 gallons of product have been recovered from the site. On October 21, 2009, URS collected groundwater samples o January 25, 2010 and no exceedences were detected in any of the sampled wells (MW-04, MW-7, MW-11, MW-18 and MW-19). URS will continue monthly product recovery and quarterly groundwater sampling. This report is uploaded to eDocs. - JAM 08/31/2010: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period May through July 2010 dated August 31, 2010. Reviewed the report. Between May and July 2010, URS detected product in MW-01, MW-02, MW-05, MW-06, MW-09, and MW-17. The greatest amount of product was detected in well MW-17 with 0.25 feet in June and 0.42 feet in July. A significant quantity of product was also measured in MW-09 with 0.06 feet in May, 0.10 feet in June, and 0.18 feet in July. Measurements at the remaining locations were all 0.02 feet or below. URS evacuated approximately 3.5 gallons of free product from the six wells that exhibited product. To date, approximately 77 gallons of free product have been recovered from the site. On August 3, 2010, URS collected groundwater samples from monitoring wells MW-04, MW-07, MW-08, MW-10 and MW-18. Monitoring wells MW-11 and MW-19 were not sampled because no compounds were detected in these wells for two quarters or more. The analytical results showed only one detection (benzene at 2.2 ppb in MW-08) above NYSGQS. This report is uploaded to eDocs. - JAM 10/25/10 In the quarterly status update meeting with DDC and URS on 10/19/10, DEC requested that wells MW-3, MW-5, and MW-6 be added to the quarterly sampling schedule. - JAM 11/05/2010: This spill case was transferred to A. Doronova. - AD 02/14/2011: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period August through November 2010 dated February 14, 2011. Reviewed the report. Between August and November 2010, URS detected product in MW-01, MW-02, MW-06, MW-09, and MW-17. The greatest amount of product was detected in well MW-17 with 0.29 feet in August, 0.69 feet in September, 0.36 feet in October, and 0.40 feet in November. A significant quantity of product was also measured in MW-02 and MW-09

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with thicknesses ranging from 0.05 to 0.24 feet. Measurements at the remaining locations were all 0.01 feet or less. Between August and November, URS evacuated approximately 4.75 gallons of free product from all wells that exhibited product, except for MW-06 (which contained only 0.01 feet). To date, approximately 81.75 gallons of free product have been recovered from the site. On November 15, 2010, URS collected groundwater samples from monitoring wells MW-03, MW-04, MW-05, MW-07, MW-08, MW-10 and MW-18. MW-06 was not sampled due to the presence of product. Monitoring wells MW-11 and MW-19 were not sampled because no compounds were detected in these wells for two quarters or more. The analytical results showed TVOCs detections above New York State Groundwater Quality Standards in MW-03 (45ppb), MW-05 (6ppb) and MW-08 (68ppb). Detections above standards in MW-05 were PAHs only. URS will continue the monthly product recovery visits and the quarterly groundwater monitoring. AD 06/28/2011: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period December 2010 through February 2011 dated June 28, 2011. 08/29/2011: Reviewed the report. It states that currently, URS personnel visit the site each month to measure groundwater levels and estimate free product thickness in up to 13 monitoring wells: MW-01 through MW-11, MW-17, and MW-18. All wells are checked for product and groundwater levels are measured at least quarterly. During this quarterly monitoring period, URS personnel visited the site on December 22, 2010, January 24, 2011, and February 24, 2011. URS detected product in monitoring wells MW-01, MW-06, MW-09, and MW-17. The greatest amount of product was detected in well MW-17 with 0.35 feet in December, 0.40 feet in January and 0.45 feet in February. Measurements at the remaining locations were all 0.05 feet or less. During this monitoring period, URS evacuated approximately 2.5 gallons of free product from the four wells that exhibited product using a vacuum truck. To date, approximately 84.25 gallons of free product have been recovered from the site. The most recent sampling event was conducted on February 10, 2011. URS collected groundwater samples from monitoring wells MW-03, MW-04, MW-05, MW-07, MW-08, MW-10 and MW-18. MW-06 was not sampled due to the presence of product. Monitoring wells MW-11 and MW-19 were not sampled because no compounds were detected in these wells for two quarters or more. Well MW-16 was destroyed and therefore cannot be sampled. The analytical results showed one detection above NYS GQS (1,2,4-trimethylbenzene) in MW-03. The total VOCs in well MW-03 was only 30 ppb. All compounds in all other wells sampled were below the NYSDEC GQSC. Based on data collected in February 2011, the free product plume at the site extended to three monitoring wells. Product measurements during this quarter were comparable to the previous quarter, although measurements in MW-06 were slightly higher and measurements in MW-09 and MW-17 were lower. It is significant to note that no product was detected in well MW-02 during this monitoring period, marking a potential trend of no product detected west of the oil/water separator. The data shows that no product has been detected and that no compounds were detected above the NYSDEC Groundwater Criteria for two quarters or more in the following wells: MW-04, MW-07, MW-10 and MW-18. Based on this data, URS requesting that these wells be removed from the quarterly sampling schedule with the exception of well MW-07, which is a downgradient well. These wells will be removed from the quarterly sampling schedule upon approval by the NYSDEC. Other than continued product removal, no additional remediation action is warranted at the site at this time. URS will continue the monthly

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product recovery visits and the quarterly groundwater monitoring. AD 10/11/2011: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period March 2011 through May 2011 dated October 11, 2011. DL the report to eDocs. Will review. AD 11/30/2011: Reviewed the report. It states that the most recent sampling event was conducted on May 31, 2011. Monitoring wells included in the quarterly groundwater sampling are: MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, MW-10 and MW-18. MW-17 is not part of the sampling program because it consistently contains product. Samples were not collected from MW-06 due to the presence of product and from well MW-05 because a heavy sheen was observed in this well. The analytical results showed that VOCs from MW-04, MW-07, MW-10, and MW-18 were all below the standards. The highest total VOCs from these wells was negligible (0.19 parts per billion (ppb)). Monitoring wells MW-03 and MW-08 each had only one VOC slightly above their respective criterion. The total VOC concentrations in these two wells were 21 and 13 ppb, respectively. SVOCs in all monitoring wells were below the criteria, with only a few trace detections of naphthalene. In summary, dissolved phase VOCs in groundwater are very low and do not warrant remediation. Based on data collected through May 2011, the free product plume appears to be decreasing since no product has been detected at MW-01 or MW-02 for several months; the plume recently has been limited to three monitoring wells: MW-06, MW-09, and MW-17. Product measurements during this quarter were comparable to the previous quarter. No product has been detected in well MW-02, indicating a potential trend of no product detected west of the oil/water separator. Other than continued product removal, no additional remediation action is warranted at the site at this time. URS will continue the monthly product recovery visits and the quarterly groundwater monitoring. AD 01/03/2012: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period June 2011 through August 2011 dated January 3, 2012. DL the report to eDocs. Will review. AD 02/23/2012: Reviewed the report. It states that monitoring wells currently checked on a monthly basis include 7 wells: MW-01, MW-02, MW-03, MW-05, MW-06, MW-09, and MW-17. 5 wells: MW-04, MW-07, MW-08, MW-10, and MW-18 typically do not contain product and are only monitored on a quarterly basis. During this quarterly monitoring period, URS visited the site 4 times: on June 21, July 22, August 10 and August 25, 2011. During this quarter, URS detected measureable product in 6 monitoring wells MW-01, MW-02, MW- 05, MW-06, MW-09, and MW-17. Product was found at more locations during this quarter than previous quarters (i.e., MW-01, MW-02, and MW-05); however, detections at these locations were all less than 0.02 feet. The greatest amount of product was detected in well MW-17 with 0.34 feet in June, 0.13 feet in July, and 0.17 feet in August. Product measurements at the other five wells were all 0.07 feet or less. During this monitoring period, URS evacuated approximately 4 gallons of free product, using a vacuum truck, from the six wells that exhibited product. To date, approximately 90.5 gallons of free product have been recovered from the site. URS states that the product detections at MW-01, MW-02, and MW-05 during this quarter most likely are only temporary fluctuations as the plume continues to decrease in extent and thickness. The most recent sampling event was conducted on August 1, 2011. All wells in the program were sampled except for wells MW-05 and MW-06; these wells could not be sampled due to the presence of product in the wells. Depth to groundwater at the site ranges from less than 1’ bgs to approximately 6’ bgs. The

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estimated groundwater flow direction ranges from east to south-southeast. The analytical results showed that no VOCs or SVOCs were detected in well MW-07, and only one VOC was detected above criteria in wells MW-03 and MW-08. The TVOCs in well MW-03 was 19ppb and in well MW-08 the TVOCs were 35 ppb. SVOCs in all monitoring wells were below the criteria, with only a few trace detections of naphthalene. In summary, dissolved phase VOCs in groundwater are very low and do not warrant remediation. URS is requesting that the SVOCs be removed from the groundwater analytical program for this site. Based on data collected through August 2011, URS concludes that the free product plume appears to be decreasing in size and thickness, although recently there have been some trace product detections at two outlying wells. Groundwater contaminant concentrations remain low in all monitoring wells sampled. Based on a lack of detections in the analytical samples, URS requests that the SVOCs be removed from the analytical program. Other than continued product removal, no additional remediation action is warranted at this time. URS will continue the monthly product recovery visits and the quarterly groundwater monitoring. To issue an approval. AD 03/20/2012: Sent an e-mail to A. Samani approving removal of SVOCs from analytical program. AD 05/16/2012: Received Quarterly Groundwater Sampling Reports for 4th quarter 2011 and 1st quarter 2012. DL the reports to eDocs. Will review. AD 06/08/2012: Reviewed the 4th quarter 2011 and 1st quarter 2012 report. It states that monitoring wells currently included in the quarterly groundwater sampling are: MW-03, MW-05, MW-06, MW-07, and MW-08. In the period from September 2011 through January 2012, URS personnel visited the site for either product collection or groundwater sampling on five occasions. Over these events, product was detected in a total of six monitoring wells: MW-01, MW-02, MW-05, MW-06, MW-09, and MW-17. Except for MW-17, the detected product thickness in the monitoring wells was 0.05 feet or less for all monitoring events in this period. The detected product in MW-17 ranged in thickness from 0.02 feet to 0.57 feet. Overall, product thickness measurements were similar to those from previous site visits. According to the historic data, product thickness have fluctuated over the past three years, especially in well MW-17. As for wells MW-02, MW-06 and MW-09, product thickness levels have historically fluctuated but remain low. During the period from September 2011 through January 2012, URS used a vacuum truck to collect an estimated 4.5 gallons of free product from the six monitoring wells that exhibited product. To date, an estimated 94.5 gallons of free product have been recovered from the site. The product detections measured at MW-01 and MW-02 during the last several sampling events are most likely only temporary fluctuations as the plume continues to decrease in extent and thickness. If significant product is observed or recovered in the quarterly events, URS will increase the frequency of the product collection events to monthly. All wells in the sampling program were sampled during the fourth quarter 2011 on October 31, 2011 and first quarter 2012 on January 30, 2012 sampling events except for wells MW-05 and MW-06, due to the presence of product. Depth to groundwater at the site ranges from less than 1 foot bgs to approximately 6 feet bgs. Previous investigations at the site indicate a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to south-southeast. The analytical results from the latest sampling event on January 30, 2012 showed that no VOCs or SVOCs were detected

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in wells MW-07 or MW-08, and only one VOC (1,2,4-trimethylbenzene) was detected above criteria in well MW-03. The total VOCs in well MW-03 was only 14 ppb. Based on data collected through February 2012, URS concludes that the free product plume appears to be decreasing in size and thickness. Due to the small quantities of product being recovered, URS has reduced the frequency of product collection to quarterly. If significant product is observed or recovered in the quarterly events, URS will increase the frequency of the events to monthly. Groundwater contaminant concentrations remain low in all monitoring wells sampled. URS will continue the quarterly groundwater sampling program. Other than continued product removal, no additional remediation action is warranted at this time. AD 10/02/2012: Received Quarterly Groundwater Sampling Reports for 2nd quarter 2012. DL the report to eDocs. Will review. AD 11/09/2012: Reviewed the 2nd ans 3rd quarters 2012 report. It states that in the period from February through July 2012, URS personnel visited the site for either product collection or groundwater sampling on four occasions. Over these events, product was detected in a total of six monitoring wells: MW-01, MW-02, MW-05, MW-06, MW-09, and MW-17. The maximum product thickness detected during this period at monitoring well MW-06 was 0.59 feet and at well MW-17 it was 0.14 feet. The detected product thickness in the remaining monitoring wells was 0.04 feet or less for all monitoring events in this period. Overall, product thickness measurements were similar to those from previous site visits. During the period from February through July 2012, URS used a vacuum truck to collect an estimated 2.5 gallons of free product from the five monitoring wells that exhibited product. To date, an estimated 97 gallons of free product have been recovered from the site. URS states that the product detections measured at most monitoring wells are relatively minor as the plume continues to decrease in extent and thickness. URS will continue to collect the product via vacuum truck on a quarterly basis. However, if significant product is observed or recovered in future events, URS will increase the frequency of the product collection events to monthly. Only monitoring wells MW-03, MW-07, and MW-08 were sampled during the second quarter sampling event on April 16, 2012; wells MW-05 and MW-06 were not sampled due to the presence of product. The same three wells were also sampled for the third quarter sampling event on July 31, 2012 since wells MW-05 and MW-06 again contained product for the third quarter sampling event. Depth to groundwater at the site ranges from less than 1’ bgs to approximately 6’ bgs. The estimated groundwater flow direction ranges from east to southeast. The analytical results from the latest sampling event on July 31, 2012 showed no detection of any VOCs in any of the three monitoring wells sampled. Results from the previous sampling event in April were similar with only 5.6 ppb TVOCs detected in MW-03 and no VOCs detected in the other two wells. URS concludes that dissolved phase contamination in groundwater is very low and does not warrant remediation. Based on data collected through July 2012, URS states that the free product plume appears to be decreasing in size and thickness. Due to the small quantities of product being recovered, URS conducts product collection on a quarterly basis. If significant product is observed or recovered in future quarterly events, URS will increase the frequency of the events to monthly. Groundwater contaminant concentrations remain low or non-existent in all monitoring wells sampled. URS will continue the quarterly groundwater sampling program. Other than continued product removal, no additional remediation action is warranted at

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this time. AD 04/05/2013: Received 4th Quarter 2012 and 1st Quarter 2013 Monitoring Report for the site. DL to eDocs. Will review. AD 05/23/2013: Reviewed the report. It states that in the period from August 2012 through January 2013, URS personnel visited the site for either product collection or groundwater sampling on four occasions. Over these four events, product was detected in six monitoring wells: MW-01, MW-02, MW-05, MW-06, MW-09, and MW-17. The maximum product thickness detected during this period was 0.71 feet at monitoring well MW-09. The product thickness measured in the other wells was much lower, ranging from 0.01 feet to 0.2 feet. The affected wells and product thickness measurements over this period were similar to those from previous site visits with the exception of the 0.71 feet detected at well MW-09 in January 2013. During the six month period from August 2012 through January 2013, URS collected an estimated total of 3.75 gallons of product using a vacuum truck. To date, an estimated 100.75 gallons of free product have been recovered from the site. The report states that the product detections measured at most monitoring wells are relatively minor as the plume continues to decrease in extent and thickness. URS will continue to collect the product via vacuum truck on a quarterly basis. However, if significant product is observed or recovered in future events, URS will increase the frequency of the product collection events to monthly. Groundwater sampling: Monitoring wells MW-03, MW-06, MW-07, and MW-08 were all sampled during the both the fourth quarter sampling event on October 10, 2012, and the first quarter 2013 sampling event on January 7, 2013. Monitoring well MW-05 was not sampled during either event due to the presence of product. The analytical results from the latest sampling event on January 7, 2013 showed no exceedances of the NYSDEC Groundwater quality criteria in the samples from wells MW-03, MW-07, and MW-08. The highest TVOCs was in well MW-06 at 7,877 ppb which is a huge increase from previous October 2012 sampling. GW data (ppb): October 2012 January 2013 1. MW-3 ND ND 2. MW-6 64 7877 3. MW-7 ND ND 4. MW-8 2.7 ND Conclusions: URS concludes that based on data collected through January 2013, the free product plume continues to decrease in size and thickness, although there are fluctuations and occasional events such as in January 2013 where the product thickness increases. Due to the small quantities of product being recovered, URS will continue to collect product on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained, URS will increase the frequency of the collection events to monthly. URS will continue the quarterly groundwater sampling and monitoring program. Other than continued product removal, no additional remediation action is warranted at this time. If future sampling events verify that the elevated total VOCs in well MW-06 as indicated by the January 2013 sampling event are valid, URS will evaluate implementation of further remedial actions. AD 10/01/2013: Received 2nd Quarter 2013 Monitoring Report for the site. DL to eDocs. Will review. AD 11/12/2013: Reviewed the report. It states that during the reported period from February through August 2013, URS personnel visited the site for either product collection or groundwater sampling in April, July, and August of 2013. Product recovery: During these three events, product was detected in five wells: MW-01, MW-02, MW-05, MW-09, and MW-17. The maximum product thickness detected during this period was 0.43 feet at monitoring well MW-09. The maximum product thickness measured in the other four wells ranged from 0.03 feet to 0.34 feet. Product

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thickness measurements have fluctuated over the past several years, especially in well MW-17. As for wells MW-02, MW-06 and MW-09, product thickness levels have historically fluctuated but remain low, with the exception of the unusually high product thickness measurement in MW-09 during the January 2013 event; the product level in this well has decreased considerably in the last two events. Product has not been detected at well MW-06 since September 2012. During the six month period from February through August 2013, URS collected an estimated total of 4 gallons of product using a vacuum truck. To date, an estimated 104.75 gallons of free product have been recovered from the site. Both the quantity of the product recovered and the number of wells affected have decreased since 2009. As noted above, the product detections measured at most monitoring wells are relatively minor as the plume continues to decrease in extent and thickness. URS will continue to collect the product via vacuum truck on a quarterly basis. However, if significant product is observed or recovered in future events, URS will increase the frequency of the product collection events. Groundwater sampling: Depth to groundwater at the site typically ranges from less than 1 foot below ground surface (bgs) to approximately 6 feet bgs, although the depth to water occasionally is as deep as 8 feet bgs in some locations. Previous investigations at the site indicate the subsurface conditions comprise a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to southeast. Monitoring wells currently included in the quarterly groundwater sampling are: MW-03, MW-05, MW-06, MW-07, and MW-08. For the second quarter monitoring event on April 16, 2013, URS sampled all wells in the program except for MW-05, which was found to contain product. For the third quarter event on August 20, 2013, URS sampled all wells except for MW-05 because it contained product and MW-03 because the area was submerged with surface water. The analytical results from the second and third quarter sampling events showed no detections of any VOCs or naphthalene in wells MW-07 and MW-08. Well MW-03 was only sampled in the second quarter and had a total VOC concentration of 40 parts per billion (ppb) with only methyl tert-butyl ether (MTBE) detected above its criterion. During the first quarter 2013 sampling event, the total VOC concentration in the sample collected from monitoring well MW-06 was 7,877 ppb. According to URS, this elevated concentration was unexpected considering that the highest concentration of total VOCs detected in this well previously was 197 ppb in April 1999. Based on the results from the second and third quarter 2013, it appears that the elevated result from the first quarter 2013 sampling event was an anomaly. URS will continue to monitor the groundwater conditions at this well and evaluate any additional fluctuations in VOC concentrations that may occur. Dissolved-phase groundwater impacts at this site have historically been too low to warrant remediation, but if elevated groundwater concentrations persist in well MW-06 or are found at other monitoring wells, remediation will be evaluated and implemented. GW data (ppb): January 2013 April 2013 August 2013 1. MW-3 ND 40 NS 2. MW-6 7877 71 29 3. MW-7 ND ND ND 4. MW-8 ND ND ND Based on data collected through August 2013, the URS states that the free product plume continues to decrease in size and thickness, although there are fluctuations and occasional events where the product thickness increases. Dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. Based on the most recent groundwater monitoring

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and product recovery data as summarized above, URS recommends the following: Actions: " URS will continue the quarterly groundwater monitoring program. " URS will continue to collect product on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained or increasing, URS will increase the frequency of the collection events. " No additional remedial actions are warranted at this time. URS will continue to monitor free product and dissolved phase impacts and evaluate implementation of further remedial actions if warranted. There are no proposals requiring DEC approvals. AD 05/05/2014: Received 4th Quarter 2013 and 1st Quarter 2014 Monitoring Report for the site. Will review. AD 06/18/2014: Reviewed the report. It states that for the fourth quarter 2013 monitoring event on November 6, URS only sampled wells MW-06, MW-07, and MW-08 since the remaining wells contained product at the time of the sampling. For the first quarter 2014 sampling event on March 26, 2014, all wells in the program were sampled except for well MW-03 which was found to be damaged and could not be opened. URS additionally collected samples from wells MW-02 and MW-09 during this event to verify that there was still no dissolved phase contamination at these locations. These wells were last sampled in 2006 and 2005, respectively, and typically contained product. GW data (ppb): March 2014 November 2013 1. MW-2 ND NS 2. MW-5 3.6 NS 3. MW-6 28 24 4. MW-7 ND ND 8. MW-8 6 12 9. MW-9 ND NS The analytical results from the most recent sampling event in March 2014 showed no detections of any VOCs or naphthalene in wells MW-02, MW-07, and MW-09, and only 4 parts per billion (ppb) total VOCs in well MW-05. Wells MW-06 and MW-08 both exceeded only the NYSDEC Groundwater Quality Criteria for benzene. The total VOC concentrations in these two wells were very low at only 28 ppb and 6 ppb, respectively. The highest total VOC concentration of any monitoring well over the past year was 71 ppb at well MW-06. Dissolved-phase groundwater impacts at this site have historically been too low to warrant remediation. However, there are still a few wells that have not been sampled recently due to product. If elevated groundwater concentrations are found in any of the monitoring wells, remediation of the dissolved phase will be evaluated and implemented, if warranted. Conclusions: Based on data collected through March 2014, URS states that free product plume at this site continues to decrease in size and thickness. Over the last quarter, product was detected in only two wells, and has decreased to the point where product can be collected with petroleum absorbent socks instead of a vacuum truck. Dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. DSNY has indicated to URS that the oil/water separator was being replaced in 2014. The separator was considered a potential source of free product and replacement may result in improvements in free product detections in the future. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: - URS will continue the quarterly groundwater monitoring program. - URS will monitor product at a minimum on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained or increasing, URS will increase the frequency of the collection events. No additional remedial actions are warranted at this time. URS will continue to monitor free product and dissolved phase impacts and evaluate implementation of further remedial actions, if warranted. There sre no proposals

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requiring DEC approval at this time. AD 09/15/2014: Received 2nd Quarter 2014 Monitoring Report for the site. Will review. AD 10/21/2014: Reviewed the report. It states that monitoring wells checked during the second quarter product recovery event on April 21, 2014 were: MW-01, MW-02, MW-05, MW-06, MW-09, and MW-17. Other wells at the site usually do not contain product and are typically only monitored during the quarterly groundwater sampling event which is conducted separately from the product recovery events. During the second quarter sampling event on June 13, 2014, wells MW-01, MW-02, MW-05 through MW-09, and MW?17 were monitored for product. During the second quarter 2014, product or a product sheen was detected in 4 wells: MW-01, MW-05, MW-09, and MW-17. The maximum product thickness detected during this period was 0.02 feet at monitoring well MW-09. Product thickness have fluctuated over the past several years, especially in well MW-17. However, all of the wells have been on a downward trend for the past year, and have been significantly lower in 2014. To the date, an estimated 119.75 gallons of free product have been recovered from the site. Both the quantity of product recovered and the number of wells affected have decreased since 2009. The product detections measured at most monitoring wells are relatively minor as the plume continues to decrease in extent and thickness. URS will continue to evaluate the most effective method for product collection based on the product observations and the quantity of affected wells in the upcoming year. GW sampling: Depth to groundwater at the site typically ranges from less than 1 foot below ground surface (bgs) to approximately 6 feet bgs, although the depth to water occasionally is as deep as 8 feet bgs in some locations. Previous investigations at the site indicate the subsurface conditions are comprised of a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to southeast. URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-03, MW-05, MW-06, MW-07, and MW-08. For the second quarter 2014 monitoring event on June 13, 2014, URS sampled 4 wells: MW-02, MW-06, MW-07, and MW-08. Well MW-03 was not sampled because it is damaged and could not be opened; well MW-05 was not sampled because there was a heavy sheen of product. Well MW-02 is an additional well that was sampled during this event to verify that there was still no dissolved phase contamination at this location. The analytical results from the most recent sampling event in June 2014 showed slight exceedances only for benzene in wells MW-06 and MW-08. The total VOCs in these two wells were very low at only 2.5 ppb and 3.2 ppb, respectively. There were no exceedances of the NYSDEC Groundwater Quality Criteria in the remaining wells MW-02 and MW-07. Conclusions: Based on data collected through June 2014, the free product plume at this site continues to decrease in size and thickness. Over the last quarter, minor quantities of product were detected in only four wells; product has decreased to the point where it can be collected with petroleum absorbent socks instead of a vacuum truck. Dissolved?phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. DSNY replaced the piping between the oil/water separator and the oil/water separator overflow UST in 2014; based on recent monitoring data, it appears that the new piping has addressed the source of free product at the site. Based on the most recent groundwater monitoring and product recovery data as

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summarized above, URS recommends the following: Actions: - URS will continue the quarterly groundwater monitoring program. Once the free product at the site has been addressed, URS will collect groundwater samples from all monitoring wells in the monitoring program. - URS will collect product from affected wells at a minimum on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained or increasing, URS will increase the frequency of the collection events. - No additional remedial actions are warranted at this time. URS will continue to monitor free product and dissolved phase impacts and evaluate implementation of additional remedial actions, if warranted. There are no proposals which require DEC's approval at this time. AD 03/03/2015: Received a Groundwater MOnitoring Report for the 3rd and 4th quarters of 2014. Will review. AD 04/06/2015: Reviewed the report. It states that Free product recovery: During the third and fourth quarter 2015, product or a product sheen was detected in monitoring wells MW-01, MW-05, MW-09, and MW-17. The maximum product thickness detected during this period was 0.06 feet at monitoring wells MW-09 and MW-17. Product absorbent socks have been utilized for product collection from wells MW-09 and MW-17 since September 2014. Because there are socks installed in the wells, no product is detected in the well with the oil/water interface probe. However, it is assumed that product is still present and being collected by the socks. During the latest monitoring event in November, the socks were reported as 5% and 50% saturated in wells MW-09 and MW-17, respectively. A total of four product collection and groundwater sampling events were conducted during the third and fourth quarters of 2014. A total of eight monitoring wells were monitored for product during these events. Product thickness measurements have fluctuated over the past several years, especially in well MW-17. However, according to URS, all of the wells have been on a downward trend for the past year, and have been significantly lower in 2014. To date, an estimated 120.5 gallons of free product have been recovered from the site. URS will continue to evaluate the most effective method for product collection based on the product observations and the quantity of affected wells in the upcoming year. Groundwater Sampling Results: URS collects GW samples on a quarterly basis to monitor the dissolved phase of groundwater plume. Monitoring wells currently included in the quarterly GW sampling program are: MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. URS collected the third quarter samples on September 16, 2014 and the fourth quarter on November 10, 2014. Well MW-03 was not sampled because it was damaged and cannot be opened; well MW-05 was not sampled because there was a heavy sheen of product during both events. Well MW-01 was sampled during the fourth quarter only. This well has not been sampled since 2005 since it typically contains product. The analytical results from the most recent sampling event in November 2014 showed that the highest TVOCs was in MW-01 with 430 ppb of total VOCs, all of which was toluene. Well MW-06 contained only a slight exceedance for benzene. There were no exceedances of the NYSDEC Groundwater Quality Criteria in the remaining wells MW-02, MW-07, and MW-08. The results from the third quarter sampling were similar to the fourth quarter. Other than the recent sample at MW-01, the highest total VOC concentration of any monitoring well over the past year was 28 ppb at well MW-06. Dissolved?phase groundwater impacts at this site have historically been low and do not warrant remediation. However, if the results from MW-01 are sustained in future monitoring events,

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remedial actions will be implemented to address the dissolved-phase contamination in this area. There are also wells such as MW?17 which have not been sampled recently due to the presence of product. If elevated groundwater concentrations are found in any of the monitoring wells, remediation of the dissolved phase will be evaluated and implemented, if warranted. Conclusions Based on data collected through November 2014, the free product plume at this site continues to decrease in size and thickness. Over the last two quarters, minor quantities of product were detected in only four wells; product has decreased to the point where it can be collected with petroleum absorbent socks instead of a vacuum truck. Dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions with the exception of the fourth quarter sample from MW-01. Actions and Proposals: Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: - URS will continue the quarterly groundwater monitoring program. Once the free product at the site has been addressed, URS will collect groundwater samples from all monitoring wells in the monitoring program. - URS will collect product from affected wells at a minimum on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained or increasing, URS will increase the frequency of the collection events. - URS will monitor MW-01 for at least one additional quarter to determine whether the total VOCs at this well remains elevated and warrants further remedial actions. No additional remedial actions are warranted at this time for the remaining wells at the site. URS will continue to monitor free product and dissolved phase impacts and evaluate implementation of additional remedial actions, if warranted. No actions requiring DEC approval were proposed at this time. AD 08/14/2015: Received the following e-mail from URS: Document report.sp9810571.2015.08.14.bronx_dist_3a. 1st_and_2nd_quarter_2015_monitoring_report.pdf has been uploaded. This document is described as: Groundwater Monitoring Report for the First and Second Quarter 2015 for the Bronx District 3A Garage site. Please log in to http://ddcreports.ursbufweb.com to view the document. It can be found under the eDocs page. Thank you. Will review. AD 09/29/2015: Reviewed the report. It states that URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. URS collected the first quarter samples on February 3, 2015; wells MW-01, MW-02, and MW-05 were not sampled because they contained product. Well MW-03 is damaged and could not be opened. The second quarter samples were collected on June 3, 2015. Well MW-01 was not sampled during the second quarter event because it contained product. Wells MW-03, MW-05, and MW-06 were not sampled because they were damaged and could not be opened. Depth to groundwater at the site typically ranges from less than 1 foot below ground surface (bgs) to approximately 6 feet bgs, although the depth to water is occasionally as deep as 8 feet bgs in some locations. Previous investigations at the site indicate the subsurface conditions are comprised of a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to southeast. Analytical data: The analytical results from the most

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recent sampling event in June 2015 showed that no VOCs or naphthalene were detected in wells MW-02, MW-07, or MW-08. Results from the first quarter event were similar; the highest total VOC concentration was only 7.7 parts per billion (ppb) in well MW-02. URS stated that dissolved-phase groundwater impacts at this site have historically been low and do not warrant remediation. However, a sample from MW-01 in November 2014 showed a total VOC concentration of 430 ppb. Well MW-01 has not been sampled in the subsequent sampling events due to the presence of product. If the results from MW-01 are sustained in future monitoring events, remedial actions will be implemented to address the dissolved-phase contamination in this area. There are also wells such as MW-17 which have not been sampled recently due to the presence of product. If elevated groundwater concentrations are found in any of the monitoring wells, remediation of the dissolved phase will be evaluated and implemented, if warranted. Conclusions: Based on data collected through June 2015, the free product plume at this site continues to decrease in size and thickness. Over the last two quarters, minor quantities of product were detected in only five wells; product has decreased to the point where it can be collected with petroleum absorbent socks instead of a vacuum truck. Dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions with the exception of the fourth quarter 2014 sample from MW-01. Additional monitoring will be required to determine whether dissolved phase impacts are present at this well and other wells that have not been sampled due to the continued presence of product. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: " URS will continue the quarterly groundwater monitoring program. Once the free product at the site has been addressed, URS will collect groundwater samples from all monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. " URS will collect product from affected wells at a minimum on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained or increasing, URS will increase the frequency of the collection events. " URS will add monitoring well MW-01 to the list of wells included in the quarterly groundwater sampling program. " URS will repair monitoring wells MW-03, MW-05, and MW-06. Proposals/Approval Required: " None AD 12/14/2015: Received the following e-mail from URS: Document report.sp9810571.20151214.bronx_dist_3a. 3rd_quarter_2015_monitoring_rpt.pdf has been uploaded. This document is described as: Groundwater Monitoring Report for the Third Quarter 2015 for the Bronx District 3A Garage site. Please log in to http://ddcreports.ursbufweb.com to view the document. It can be found under the eDocs page. Thank you. URS Will review. AD 01/12/2016: Reviewed the report. It states that URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the third quarter of 2015 (through September). Free product: During the third quarter 2015, product or a product sheen was not detected in any monitoring wells. Product absorbent socks have been utilized for product collection from wells MW-09 and MW-17 since September 2014 and in

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MW-01 since June 2015. Because there are socks installed in the wells, no product is detected in the well with the oil/water interface probe. However, it is assumed that product is still present and being collected by the socks. The absorbent socks in wells MW-01 and MW-09 were each replaced once during the third quarter 2015.To date, an estimated 120.5 gallons of free product have been recovered from the site. The product detections measured at most monitoring wells are relatively minor as the plume continues to decrease in extent and thickness. Remaining product at the site is likely minor remnants that will continue to slowly decrease over time. URS will continue to evaluate the most effective method for product collection based on the product observations and the quantity of affected wells in the upcoming year. GW sampling: Monitoring wells currently included in the quarterly groundwater sampling program are: MW-01, MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. URS collected the third quarter samples on September 23, 2015. Well MW-01 was not sampled during the third quarter event because it contained a petroleum absorbent sock. Wells MW-03, MW-05, and MW-06 were not sampled because they were located within remediation vaults and could not be opened. URS repaired these wells in late October. Depth to groundwater at the site typically ranges from less than 1 foot below ground surface (bgs) to approximately 6 feet bgs, although the depth to water is occasionally as deep as 8 feet bgs in some locations. Previous investigations at the site indicate the subsurface conditions are comprised of a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to southeast. GW data: Dissolved-phase groundwater impacts at this site have historically been low and do not warrant remediation. However, a sample from MW-01 in November 2014 showed a total VOC concentration of 430 parts per billion (ppb). Well MW-01 has not been sampled in the subsequent sampling events due to the presence of product. If the results from MW-01 are sustained in future monitoring events, remedial actions will be implemented to address the dissolved-phase contamination in this area. In addition, some wells such as MW-17 have not been sampled recently due to the presence of product. If elevated groundwater concentrations are found in any of the monitoring wells, remediation of the dissolved phase will be evaluated and implemented, if warranted. Conclusions: Based on data collected through September 2015, URS states that: the free product plume at this site continues to decrease in size and thickness. Product has decreased to the point where it can be collected with absorbent socks instead of a vacuum truck. Socks are installed in 3 wells and no product has been detected since June 2015. Dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions with the exception of the 4th quarter 2014 sample from MW-01. Additional will be required to determine whether dissolved-phase impacts are present at this well and other wells that have not been sampled due to the continued presence of product. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: - URS will continue the quarterly groundwater monitoring program. Once the free product at the site has been addressed, URS will collect groundwater samples from all monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - URS will conduct monthly product recovery events to

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inspect or replace petroleum absorbent socks. If product levels increase, URS will implement alternative technologies, such as manual pumping using a peristaltic pump. Proposals/Approval Required: - None AD 03/18/2016: Received the following e-mail from K. Shanahan of URS: Hi Ainura, Attached is a table with the most recent information regarding free product and VOC/SVOC detections at the Bronx District 3A site. Also attached are two figures: Figure 3 illustrates the site plan with monitoring well locations on-site Figure 4 shows groundwater monitoring data over the past four quarters and four additional wells east and southeast of the site. Wells MW-13, MW14, MW15, MW16, MW-19 and MW-20 are either destroyed or located in a median covered with soil and could not be located. In February 2016, free product was not detected in wells MW-01 through MW-09 and MW-17. In addition, no VOCs were detected in samples collected from wells MW-02, MW-03, MW-04, MW-05, MW-06, MW-07, MW-09 and MW-17; the samples from wells MW-01 and MW-08 had VOC detections at 23 and 3 ug/L, respectively. In accordance with our telephone conversations today, we would like to sample wells MW-10, MW-11, MW-12 and MW-18 in an effort to gather sufficient data to justify a spill closure request. This of course assumes these four wells remain functional. Please send me your response to this plan at your earliest convenience. Thanks, Kevin J. Shanahan Project Manager, Environmental Business Unit, Metro New York Region D +1-716-923-1215 M +1-716-480-7352 kevin.shanahan@aecom.com Will review. AD 03/23/2016: Looked at the submitted documents. According to sampling data, all sampled wells were free of LNAPL and had ND VOCs. Six wells out of twenty were destroyed or could not be located. Latest data from these wells was ND for VOCs. The site conditions look favorable for spill closure. AD 03/24/2016: Sent an e-mail to K. Shanahan telling to proceed with the plan. AD 05/24/2016: Received the following e-mail from URS: Document report.sp9810571.20160524.bronx_dist_3a. 1st_and_2nd_quarter_2016_monitoring_rpt.pdf has been uploaded. This document is described as: Groundwater Monitoring Report for the First and Second Quarter of 2016 for the Bronx District 3A Garage site. Please log in to http://ddcreports.ursbufweb.com to view the document. It can be found under the eDocs page. Thank you. Will review. AD 06/21/2016: Reviewed the report. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the first and second quarters of 2016 (through May). Product recovery: Product recovery events during the first and second quarters of 2016 were conducted on January 19, February 19, March 30, April 5, and May 4. The socks were removed from all affected wells in January 2016 to determine whether product would continue to accumulate. During the following monitoring event in February, no product was detected in any of the ten monitoring wells that were checked, including the four wells (MW-01, MW-03, MW-09, and MW-17) that had contained product in the previous year. Based on these findings, and based on limited dissolved-phase contamination at the site as discussed below, URS contacted the NYSDEC in March 2016 to discuss additional monitoring and sampling data requirements prior to considering closure of this spill number. NYSDEC and URS agreed that a well inventory should be conducted. On March 30, 2016, URS completed the well inventory and checked water/product levels at a total of 15 monitoring wells, including six locations that had not been monitored for up to 10 years. During this event, product was measured in well MW-17 at a thickness of 0.01 feet so petroleum

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absorbent socks were reinstalled in this well. Product was also measured in wells MW-12 and MW-16 at a thickness of 0.31 feet and 0.42 feet, respectively, so petroleum absorbent socks were also installed in these wells. This was the first monitoring at well MW-12 since February 2008 and at well MW-16 since July 2006. During the next monitoring event on April 5, 2016, the petroleum absorbent socks in wells MW-12, MW-16, and MW-17 were observed to be approximately 25% saturated. Based on the low accumulation, the petroleum absorbent socks were again removed from all wells during this event to determine whether product would continue to accumulate. GW monitoring: The most recent monitoring event was conducted on May 4, 2016. During this event, product was again measured in wells MW-01 (0.02 feet), MW-12 (0.05 feet), and MW-17 (0.01 feet); petroleum absorbent socks were installed in these wells. Well MW-16 which recently contained product could not be accessed during this event because it was blocked by a disabled street sweeper. GW sampling: The site is on quarterly sampling program. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-01, MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. URS collected samples from all wells in the program during the first quarter sampling event on February 19, 2016. Samples were also collected from wells MW-04, MW-09, and MW-17 during this event. Conclusions: Based on data collected through May 2016, the free product plume at this site continues to decrease in size and thickness. Remaining product has decreased to the point where it is found intermittently at low levels and can be collected with petroleum absorbent socks instead of a vacuum truck. URS removed the petroleum absorbent socks from all wells most recently in April 2016 to determine whether product continues to collect in the wells. During the following event in May, small amounts of product were found at wells MW-01, MW-12, and MW-17, so the socks were reinstalled. Fifteen of the 20 monitoring wells installed at this site were analyzed during the first and second quarter 2016. Only well MW-19 has not been sampled recently. The four remaining monitoring wells are either destroyed and/or lost. The recent monitoring data continues to show that dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: - URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all site wells in the program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - If product is found at any wells during the next monitoring event(s), URS will reinstall petroleum absorbent socks at those locations. URS will conduct monthly product recovery events to inspect or replace petroleum absorbent socks as required. - As proposed below, URS will include all known monitoring wells on the list of wells to monitor and sample quarterly. Proposals/Approval Required: - In an e-mail to the NYSDEC dated March 18, 2016, URS proposed a list of wells to be sampled in advance of requesting spill closure. Table 3 presents an updated list of proposed wells and the most recent information regarding free product and dissolved phase contamination for each well. The wells that have been sampled as part of the routine monitoring are indicated with green shading. The additional wells that URS proposes to sample in advance of submitting a request for spill closure are indicated in blue shading. - URS does not intend to replace monitoring wells MW-13, MW-14, MW-15, or MW-20. These wells

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are all located downgradient of the site and historically had little or no dissolved phase or free product impacts. The available wells provide sufficient coverage to indicate the presence of product and dissolved phase impacts at the site. Response to this proposal was sent to URS on March 24th, 2016. AD 10/31/2016: Received a notification to upload 3rd quarter 2016 report. AD 11/18/2016: Reviewed the report. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the third quarter of 2016 (through August). Free product recovery: Product recovery events during the third quarter of 2016 were conducted on June 2, June 27, and August 5. On June 2, 2016 the petroleum absorbent socks in wells MW-01, MW-12, and MW-17 were removed to observe whether product would continue to accumulate. The sock in well MW-16 was replaced since 1.07 feet of product were measured in this well. During the next event on June 27, 2016, product was measured at a thickness of 0.001 feet in MW-01, 0.03 feet in MW-12, and 0.01 feet in MW-17 (MW-16 was not accessible). Petroleum absorbent socks were installed in wells MW-12 and MW-17 during that event. During the most recent event on August 5, 2016, product was measured with a thickness of 0.07 feet in well MW-01 and a petroleum absorbent sock was installed. The product observed at this well may be due to surface infiltration as a result of the poor condition of the well. No product was measured in wells MW-12 and MW-17, and the petroleum absorbent socks were removed. The sock in well MW-16 was observed to be 100% saturated and was replaced; 0.06 feet of product was measured in this well. As of August 2016, socks are installed only in wells MW-01 and MW-16. According to URS, product thickness measurements have fluctuated over the past several years, especially in well MW-17. However, product thickness measurements in all wells except MW-16 have been consistently lower since the first quarter 2014. Any remaining product at the site is likely minor remnants that will continue to slowly decrease over time. URS will continue to monitor for product on a monthly basis, periodically removing the absorbent socks to check for the presence of product. GW sampling: URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-01, MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. URS collected samples from all wells in the program during the third quarter sampling event on June 27, 2016 except for well MW-01 because it contained product. A sample was also collected from well MW-09 during this event. The analytical results from the third quarter sampling event in June 2016 showed that of the wells sampled, the only well with VOCs detected was MW-06 with total a VOC concentration of only 6 ppb. The results from the most recent monitoring events are consistent with previous events showing that dissolved-phase groundwater impacts at this site are low and do not warrant remediation. Conclusions: Based on data collected through August 2016, the free product plume at this site continues to decrease in size and thickness. Remaining product has decreased to the point where it is found intermittently at low levels and can be collected with petroleum absorbent socks instead of a vacuum truck. Fifteen of the 20 monitoring wells installed at this site were analyzed during the first through third quarters of 2016. Only well MW-19 has not been sampled recently. The four remaining monitoring wells are either destroyed and/or lost. The recent monitoring data continues to show that dissolved phase groundwater impacts at this site remain at low concentrations and do not warrant

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any remedial actions. Actions and Proposals Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. URS will continue monthly product recovery events to inspect or replace petroleum absorbent socks as required. All wells shown in blue or green on Table 3 will be checked for free product at least quarterly. URS will install new steel protective casings at monitoring wells MW?01 and MW?02 to prevent surface infiltration. Proposals/Approval Required: None. AD 12/29/2016: Received the following e-mail from URS: The document Bronx District 3A - 4Q 2016 Report has been posted to the NYCDDC SharePoint site. Please click here to access the site. https://nycddc.aecomonline.net/SitePages/Home.aspx Please click here to open the file. https://nycddc.aecomonline.net/All_Reports/Bronx%20District%203A/report.sp9810571.2016-12-29.Bronx_Dist_3A.4th_Quarter_2016_Monitoring_Rpt.pdf Will review. AD 01/27/2017: Reviewed the report. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the fourth quarter of 2016 (through September). Product recovery: The most recent product recovery event was conducted on September 27, 2016. During this event, petroleum absorbent socks were installed in wells MW?12 and MW?17 due to the presence of product in these wells at thicknesses of 0.09 feet and 0.02 feet, respectively. The petroleum absorbent socks in wells MW?01 and MW?16 were observed to be 100% saturated with product and replaced during this event. As of September 2016, socks are installed only in wells MW?01, MW?12, MW?16, and MW?17. GW sampling: URS collected samples from all wells in the program during the fourth quarter sampling event on September 27, 2016 except for well MW?01 because it contained product. A sample was also collected from well MW?09 during this event. Depth to groundwater at the site typically ranges from 1' bgs to approximately 6' bgs, although is occasionally as deep as 8 feet bgs at some locations. The depth to groundwater at each location was relatively consistent over the past year. Previous investigations at the site indicate the subsurface conditions are comprised of a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to southeast. The analytical results from the sampling event in September 2016 showed that of the wells sampled, the only well with VOCs detected was MW-03 with total a VOCs of only 1 ppb. There were no exceedances of NYSDEC groundwater quality criteria. The results from the most recent monitoring events are consistent with previous events showing that dissolved-phase groundwater impacts at this site are low and do not warrant remediation. Conclusions: Based on data collected through September 2016, the free product plume at this site continues to decrease in size and thickness. Remaining product has decreased to the point where it is found intermittently at low levels and can be collected with petroleum absorbent socks instead of a vacuum truck. Sixteen of the 20 monitoring wells installed at this site were analyzed at least once during the first through fourth quarters of 2016. The four remaining monitoring wells are either destroyed and/or lost. The recent monitoring data continues to show that dissolved-phase groundwater impacts at this site remain at low

CON EDISON - MANHOLE M14350 (Continued) **S104952537**

concentrations and do not warrant any remedial actions. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: - URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - URS will continue monthly product recovery events to inspect or replace petroleum absorbent socks as required. - URS will install new steel protective casings at monitoring wells MW-01 and MW-02 to prevent surface infiltration. Proposals/Approval Required: None. AD 03/20/2017: Received an e-mail with a link to 1st QMR-2017. Will upload and review. AD 05/01/2017: Reviewed the report. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the first quarter of 2017 (through January). LNAPL: Over the last quarter, URS has conducted product recovery events on November 21 and December 29, 2016, and January 9, 2017. During the event on November 21, 2016, the petroleum absorbent socks in all four wells were observed to be 100% saturated with product and were replaced. Despite the presence of absorbent socks, measurable product was also present in all four wells, ranging from 0.01 feet in MW-12 to 0.08 feet in MW-16. During the next event on December 29, 2016, the petroleum absorbent sock in well MW-16 was 100% saturated with product and was replaced; 0.05 feet of product was measured at this location. The petroleum absorbent socks in wells MW-12 and MW-17 were each observed to be 25% saturated with product and were removed to determine whether product would continue to accumulate in these wells. Well MW-01 could not be accessed during this monitoring event because it was blocked by a vehicle. The most recent product recovery event was conducted on January 9, 2017. The petroleum absorbent socks in wells MW-01 and MW-16 were observed to be 100% saturated with product and were replaced; 0.02 feet and 0.01 feet of product were measured in these wells, respectively. Wells MW-12 and MW-17 each contained product at a thickness of 0.01 feet so petroleum absorbent socks were reinstalled in these wells during this event. URS believes that the product observed at well MW?01 may have been from surface infiltration as a result of the poor condition of the well. Well MW?02 was also in poor condition. Both wells were repaired by installing new steel protective casings installed on February 21, 2017. GW sampling: URS collected samples from all wells in the program during the first quarter sampling event on January 9, 2017 except for wells MW-01 and MW-17 because they contained product. The analytical results from the first quarter sampling event in January 2017 showed that of the wells sampled, the only well with VOCs detected was MW-09 with total a VOC concentration of only 1.6 part per billion (ppb). There were no exceedances of NYSDEC groundwater quality criteria. The results from the most recent monitoring events are consistent with previous events showing that dissolved-phase groundwater impacts at this site are low and do not warrant remediation. Conclusions: Based on data collected through January 2017, the free product plume at this site continues to decrease in size and thickness. Remaining product has decreased to the point where it is found intermittently at low levels and can be collected with petroleum absorbent socks instead of a vacuum truck. Fifteen of the 20 monitoring wells installed at this site were analyzed at least once during the past year. Four of the remaining monitoring wells are either destroyed and/or lost. The recent monitoring data continues to

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show that dissolved?phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: - URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - URS will continue monthly product recovery events to inspect or replace petroleum absorbent socks as required. All wells shown in blue or green on Table 3 will be checked for free product at least quarterly. AD 06/20/2017: Received the following e-mail from URS: The document Bronx District 3A - 2Q 2017 Report has been posted to the NYCDDC SharePoint site. Please click here to access the site. https://nycddc.aecomonline.net/SitePages/Home.aspx Please click here to open the file. https://nycddc.aecomonline.net/All_Reports/Bronx%20District%203A/report.sp9810571.2017-06-20.Bronx_Dist_3A.2nd_Quarter_2017_Monitoring_Rpt.pdf Will review. AD 07/18/2017: Reviewed the 2nd quarter 2017 report. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the second quarter of 2017 (through April). Over the last quarter, URS has conducted product recovery events on February 16, March 9, and April 5, 2017. Wells MW-01, MW-16, and MW-17 all contained measurable product during at least one event over the last quarter. The greatest product thickness found was 0.35 feet in MW-01, 0.03 feet in MW-16, and 0.01 feet in MW-17. The socks in these wells were replaced during each event. No measurable product was found in well MW-12, and the socks were not replaced during the quarter. URS believes that the product observed at well MW-01 may have been from surface infiltration as a result of the poor condition of the well. Well MW-02 was also in poor condition. Both wells were repaired by installing new steel protective casings on February 21, 2017. URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-01, MW-02, MW-03, MW-05, MW-06, MW-07, MW-08, MW-09, and MW-17. URS collected samples from all wells in the program during the second quarter sampling event on April 5, 2017 except for wells MW-01 and MW-17 because they contained product. The analytical results from the second quarter sampling event in April 2017 showed that of the wells sampled, the only wells with VOCs detected were MW-03 and MW-07, with total VOCs of only 1.5 part per billion (ppb) and 2.3 ppb, respectively. There were no exceedances of NYSDEC groundwater quality criteria. The results from the most recent monitoring events are consistent with previous events showing that dissolved-phase groundwater impacts at this site are low and do not warrant remediation. Conclusions: Based on data collected through April 2017, the free product plume at this site continues to decrease in size and thickness. Remaining product has decreased to the point where it is found intermittently at low levels and can be effectively collected with petroleum absorbent socks instead of a vacuum truck. The recent monitoring data continues to show that dissolved?phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: - URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all

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monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - URS will continue monthly product recovery events to inspect or replace petroleum absorbent socks as required. All wells shown in blue or green on Table 3 will be checked for free product at least quarterly. Proposals/Approval Required: - None. AD 08/31/2017: Received an e-mail from URS: The document Bronx District 3A - 3Q 2017 Report has been posted to the NYCDDC SharePoint site and copied to the public file store. Please click here to open the file on the public server.
report.sp9810571.2017-08-31.Bronx_Dist_3A.
3rd_Quarter_2017_Monitoring_Rpt.pdf Please click here to open the file on the SharePoint site (requires log in).
https://nycddc.aecomonline.net/All_Reports/Bronx%20District%203A/
report.sp9810571.2017-08-31.Bronx_Dist_3A.
3rd_Quarter_2017_Monitoring_Rpt.pdf Please click here to access the SharePoint site. https://nycddc.aecomonline.net/ Will review. AD 09/29/2017: Reviewed the report. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the third quarter of 2017 (through July). Over the last quarter, URS conducted product monitoring events on May 3, June 2, and July 5, 2017. On May 3, 2017, there was no measurable free product in any site wells; the petroleum absorbent socks were removed from wells MW-01, MW-12, and MW-17 to determine whether product would continue to accumulate in the wells. The absorbent sock in MW-16 was fully saturated; as a result it was replaced during this event. On June 2, 2017, the only measurable product was 0.01 feet in well MW-17. A sock was installed in MW-17 due to the presence of product. The sock in MW-16 was removed. During the most recent monitoring event on July 5, 2017, several wells contained product including MW-01 (0.06 feet), MW-08 (0.06 feet), MW-12 (0.01 feet), MW-16 (0.02 feet), and MW-17 (0.01 feet). As a result of the product detections, petroleum adsorbent socks were installed in wells MW-01, MW- 08, MW-12, and MW-16; the sock in MW-17 was 100% saturated with product and replaced. The detection of product in monitoring well MW-08 (0.06 feet) is the first time that product has been detected at this well since monitoring began in 1999. URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Monitoring well locations are shown on Figure 3. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-01, MW-02, MW-03, MW-05, MW-06, MW-07, MW-08, MW-09, and MW-17. URS collected samples from all wells in the program during the third quarter sampling event on July 5, 2017 except for wells MW-01, MW-08, and MW-17 because they contained product. The analytical results from the third quarter sampling event in July 2017 showed that no VOCs were detected in any of the wells sampled. MW-03 was the only well sampled that contained naphthalene with a concentration of 1 ppb. The results from the most recent monitoring events are consistent with previous events showing that dissolved-phase groundwater impacts at this site are low and do not warrant remediation. Conclusions: Based on data collected through July 2017, the free product plume at this site continues to decrease in size and thickness. Remaining product has decreased to the point where it is found intermittently at low levels and can be effectively collected with petroleum absorbent socks instead of a vacuum truck. The recent monitoring data continues to show that dissolved-phase groundwater impacts at this site are negligible and do not warrant any remedial actions. Based on the most

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recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: - URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all monitoring wells in the monitoring program (shown in green on Table 3). If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - URS will continue monthly product recovery events to inspect or replace petroleum absorbent socks as required. All wells shown in blue or green on Table 3 will be checked for free product at least quarterly. Proposals/Approval Required: - None. AD 01/05/2018:Received an e-mail from URS: The document Bronx District 3A - 4Q 2017 Report has been posted to the NYCDDC SharePoint site and copied to the public file store. Please click here to open the file on the public server. report.sp9810571.2018-01-05.Bronx_Dist_3A. 4th_Quarter_2017_Monitoring_Rpt.pdf Please click here to open the file on the SharePoint site (requires log in). https://nycddc.aecomonline.net/All_Reports/Bronx%20District%203A/ report.sp9810571.2018-01-05.Bronx_Dist_3A. 4th_Quarter_2017_Monitoring_Rpt.pdf Will review. AD 02/14/2018: Reviewed the 4th quarter 2017 report. It states that over the last quarter, URS conducted product monitoring events on August 3, September 14, and October 9, 2017. The petroleum absorbent socks were removed from all monitoring wells at least once during this quarter. In all cases, product was again observed in the well and new petroleum absorbent socks were installed. During the most recent monitoring event on October 9, 2017, several wells contained product including MW-01 (0.02 feet), MW-08 (0.01 feet), MW?-6 (0.001 feet), and MW-17 (0.01 feet). As a result of the product detections, petroleum adsorbent socks were installed in wells MW-01, MW-08, and MW-12; the socks in wells MW-16 and MW-17 were 75% and 100% saturated with product and were replaced. The detection of product in monitoring well MW-08 (0.01 feet) is only the second time that product has been detected at this well since monitoring began in 1999. The product thickness measurements fluctuated over the years until the oil/water separator piping was repaired in early 2014. Since then, product thickness measurements have been consistently lower. Any remaining product at the site is likely minor remnants that will continue to slowly decrease over time. URS will continue to monitor for product on a monthly basis, periodically removing the absorbent socks to check for the presence of product in the surrounding aquifer. URS believes that the product observed at well MW?01 may have been from surface infiltration as a result of the poor condition of the well. Well MW?02 was also in poor condition. Both wells were repaired by installing new steel protective casings on February 21, 2017. GW monitoring: Depth to groundwater at the site typically ranges from 1 foot below ground surface (bgs) to approximately 6 feet bgs, although is occasionally as deep as 8 or 9 feet bgs at some locations. The depth to groundwater at each location was relatively consistent over the past year. Previous investigations at the site indicate the subsurface conditions are comprised of a layer of fill 1’ to 9’ thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction is from the northwest to the southeast. URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Wells currently included in the quarterly groundwater sampling program are: MW?01, MW?02, MW?03, MW?05, MW?06, MW?07, MW-08, MW?09, and MW?17. URS collected samples from all wells in the program during

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the fourth quarter sampling event on October 9, 2017 except for wells MW?01, MW?08, and MW?17 because they contained product. The analytical results from the fourth quarter sampling event in October 2017 showed that no VOCs were detected above the NYSDEC criteria in any of the wells sampled except wells MW?02 and MW?06, with total VOCs of only 6 ppb and 28 ppb, respectively. The results from the most recent monitoring events are consistent with previous events showing that dissolved?phase groundwater impacts at this site are low and do not warrant remediation. Conclusions: Based on data collected through October 2017, the free product plume at this site continues to decrease in size and thickness. Remaining product has decreased to the point where it is found intermittently at low levels and can be effectively collected with petroleum absorbent socks instead of a vacuum truck. The recent monitoring data continues to show that dissolved?phase groundwater impacts at this site are negligible and do not warrant any remedial actions. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: - URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - URS will continue monthly product recovery events to inspect or replace petroleum absorbent socks as required. Proposals/Approval Required: - None. AD 03/22/2018: Received the following e-mail from URS: The document Bronx District 3A - 1Q 2018 Report has been posted to the NYCDDC SharePoint site and copied to the public file store. Please click here to open the file on the public server.
report.sp9810571.2018-03-22.Bronx_Dist_3A.
1st_Quarter_2018_Monitoring_Rpt.pdf Please click here to open the file on the SharePoint site (requires log in).
https://nycddc.aecomonline.net/All_Reports/Bronx%20District%203A/
report.sp9810571.2018-03-22.Bronx_Dist_3A.
1st_Quarter_2018_Monitoring_Rpt.pdf Please click here to access the SharePoint site. https://nycddc.aecomonline.net/ Uploaded the report. Will review. AD 04/24/2018: Reviewed Groundwater Monitoring Report for the First Quarter 2018. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the first quarter of 2018 (through January). Over the last quarter, URS conducted product monitoring events on November 9 and December 1, 2017 and January 3, 2018. The petroleum absorbent socks were removed from all monitoring wells at least once during this quarter. Product was again observed in wells MW-01, MW-16, and MW-17 so petroleum absorbent socks were installed in these wells. Product has not been found in wells MW-08 and MW-12 in the two months since the socks were last removed. During the most recent monitoring event on January 3, 2018, product was detected in MW-01 (0.03 feet), MW-16 (0.02 feet), and MW-17 (0.01 feet). As a result of the product detections, petroleum adsorbent socks were installed in wells MW-01 and MW-16; the sock in well MW-17 was 100% saturated with product and was replaced. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-01, MW-02, MW-03, MW-05, MW-06, MW-07, MW-08, MW-09, and MW-17. URS collected samples from all wells in the program during the first quarter sampling event on January 3, 2018 except for wells MW-01 and MW-17 because they contained product. A sample was also collected from well MW-12 since this well had recently contained product. The analytical results from the first

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quarter sampling event in January 2018 showed that no VOCs were detected above the NYSDEC criteria in any of the wells sampled except well MW-06, with a total VOC concentration of 41 ppb. The results from the most recent monitoring events are consistent with previous events showing that dissolved-phase groundwater impacts at this site are low and do not warrant remediation. Conclusions: Based on data collected through October 2017, the free product plume at this site continues to decrease in size and thickness. Remaining product has decreased to the point where it is found intermittently at low levels and can be effectively collected with petroleum absorbent socks instead of a vacuum truck. The recent monitoring data continues to show that dissolved-phase groundwater impacts at this site are negligible and do not warrant any remedial actions. - URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all monitoring wells in the monitoring program (shown in green on Table 3). If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - URS will continue monthly product recovery events to inspect or replace petroleum absorbent socks as required. All wells shown in blue or green on Table 3 will be checked for free product at least quarterly. Proposals/Approval Required: - None. AD"

Remarks: "IT IS SUSPECTED THAT AN UNDERGROUND STORAGE TANK CAUSED THE CONTAMINATION. UNKNOWN AMOUNT OF SOIL CONTAMINATED. IT IS UNDER INVESTIGATION AT THIS TIME."

All Materials:

Site ID:	131989
Operable Unit ID:	1067795
Operable Unit:	01
Material ID:	314438
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0314316
Facility Type:	ER
Spill Number:	0314316
DER Facility ID:	211726
Site ID:	258760
DEC Region:	2
Closed Date:	2005-05-09
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2004-03-31
Investigator:	AIIslam
Referred To:	Not reported
Reported to Dept:	2004-03-31
CID:	407
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other

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Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-03-31
Spill Record Last Update:	2005-05-09
Spiller Name:	CHEIF 4 FACILITIES OP.
Spiller Company:	Not reported
Spiller Address:	1661 WEST FARMS ROAD
Spiller Company:	001
Contact Name:	CHEIF 4 FACILITIES OP.
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KOLLEENY TRANSFERRED TO I. ISLAM 5/9/05- The site is under remediation by LiRo Engineers. Since there is another open motor oil spill (#9810571) at the site, this spill is closed to consolidate with that one.- II."
Remarks:	"spill occured due to faulty oil water seperator, unknown ammount spilled, seperator system has been shut down."

All Materials:

Site ID:	258760
Operable Unit ID:	879754
Operable Unit:	01
Material ID:	495889
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

NY MANIFEST:

Country:	USA
EPA ID:	NYP004921142
Facility Status:	Not reported
Location Address 1:	1661 W FARMS RD
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004921142
Mailing Name:	CON EDISON - MANHOLE M14350
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL 15TH FL NE
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003

CON EDISON - MANHOLE M14350 (Continued) **S104952537**

Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

P68 **DSNY BX DISTRICT 3A GARAGE** **NY AST** **U003074849**
North **1661 WEST FARMS ROAD** **N/A**
< 1/8 **BRONX, NY 10460**
0.112 mi.
594 ft. **Site 2 of 8 in cluster P**

Relative:
Higher

Actual:
23 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-455598
Program Type: PBS
UTM X: 594146.15072
UTM Y: 4520931.48554
Expiration Date: 12/06/2018
Site Type: Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)

Affiliation Records:
Site Id: 20047
Affiliation Type: Facility Owner
Company Name: NYC DEPT OF SANITATION
Contact Type: DEPUTY CHIEF
Contact Name: CHRISTIAN HOURIHAN
Address1: 125 WORTH ST - RM #823B
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10013
Country Code: 001
Phone: (646) 885-4890
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2018-08-07

Site Id: 20047
Affiliation Type: Mail Contact
Company Name: NYC DEPT OF SANITATION
Contact Type: Not reported
Contact Name: CHRISTIAN HOURIHAN, DEPUTY CHIEF
Address1: ROOM 823B
Address2: 125 WORTH STREET
City: NEW YORK
State: NY
Zip Code: 10013
Country Code: 001
Phone: (646) 885-4890
EMail: CHOURIHAN@DSNY.NYC.GOV
Fax Number: Not reported
Modified By: CJCURCUR

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

Date Last Modified: 2018-08-30

Site Id: 20047
Affiliation Type: Facility Operator
Company Name: DSNY BX DISTRICT 3A GARAGE
Contact Type: Not reported
Contact Name: IGNACIO LAGO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 328-9877
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2016-11-15

Site Id: 20047
Affiliation Type: Emergency Contact
Company Name: NYC DEPT OF SANITATION
Contact Type: Not reported
Contact Name: BUREAU OF CLEANING & COLLECTION
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (646) 885-5051
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2013-11-20

Tank Info:

Tank Number: 003
Tank Id: 36064
Material Code: 0012
Common Name of Substance: Kerosene [#1 Fuel Oil] (On-Site Consumption)

Equipment Records:

G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
C01 - Pipe Location - Aboveground
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
I01 - Overfill - Float Vent Valve
K00 - Spill Prevention - None

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	12/01/1985
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	02/01/2001
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	kerosene [#1 fuel oil] (on-site consumption)

Tank Number:	004
Tank Id:	36065
Material Code:	9999
Common Name of Substance:	Other

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	800
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	12/01/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	other

Tank Number:	005
Tank Id:	36066
Material Code:	9999
Common Name of Substance:	Other

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
C01 - Pipe Location - Aboveground

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	other

Tank Number:	006
Tank Id:	36067
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

Tank Number:	007
Tank Id:	36068
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

Tank Number:	009
Tank Id:	47416
Material Code:	9999
Common Name of Substance:	Other

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	other

Tank Number:	011

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

Tank Id: 57804
Material Code: 9999
Common Name of Substance: Other

Equipment Records:

C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
K00 - Spill Prevention - None
B01 - Tank External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/01/1985
Capacity Gallons: 800
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 02/01/2001
Register: True
Modified By: NRLOMBAR
Last Modified: 04/14/2017
Material Name: other

Tank Number: 012
Tank Id: 64379
Material Code: 0013
Common Name of Substance: Lube Oil

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

Date Tank Closed:	01/01/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	lube oil
Tank Number:	013
Tank Id:	64380
Material Code:	9999
Common Name of Substance:	Other

Equipment Records:

D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
I04 - Overfill - Product Level Gauge (A/G)
J00 - Dispenser - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	12/01/1985
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	02/01/2001
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	other
Tank Number:	014
Tank Id:	231574
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
G03 - Tank Secondary Containment - Vault (w/o access)
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
C01 - Pipe Location - Aboveground

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)

Tank Location:	2
Tank Type:	Steel Tank in Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	07/31/1963
Capacity Gallons:	2000
Tightness Test Method:	21
Date Test:	04/15/2010
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMMOLOUG
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

P69 **DSNY BX DISTRICT 3A GARAGE** **NY UST** **U004062128**
North **1661 WEST FARMS ROAD** **N/A**
< 1/8 **BRONX, NY 10460**
0.112 mi.
594 ft. **Site 3 of 8 in cluster P**

Relative:
Higher

Actual:
23 ft.

UST:

Id/Status:	2-455598 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	12/06/2018
UTM X:	594146.15072
UTM Y:	4520931.48554
Site Type:	Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)

Affiliation Records:

Site Id:	20047
Affiliation Type:	Facility Owner
Company Name:	NYC DEPT OF SANITATION
Contact Type:	DEPUTY CHIEF
Contact Name:	CHRISTIAN HOURIHAN
Address1:	125 WORTH ST - RM #823B
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10013
Country Code:	001
Phone:	(646) 885-4890
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2018-08-07

Site Id:	20047
Affiliation Type:	Mail Contact
Company Name:	NYC DEPT OF SANITATION
Contact Type:	Not reported
Contact Name:	CHRISTIAN HOURIHAN, DEPUTY CHIEF
Address1:	ROOM 823B

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

Address2:	125 WORTH STREET
City:	NEW YORK
State:	NY
Zip Code:	10013
Country Code:	001
Phone:	(646) 885-4890
EMail:	CHOURIHAN@DSNY.NYC.GOV
Fax Number:	Not reported
Modified By:	CJCURCUR
Date Last Modified:	2018-08-30

Site Id:	20047
Affiliation Type:	Facility Operator
Company Name:	DSNY BX DISTRICT 3A GARAGE
Contact Type:	Not reported
Contact Name:	IGNACIO LAGO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-9877
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-11-15

Site Id:	20047
Affiliation Type:	Emergency Contact
Company Name:	NYC DEPT OF SANITATION
Contact Type:	Not reported
Contact Name:	BUREAU OF CLEANING & COLLECTION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 885-5051
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-11-20

Tank Info:

Tank Number:	001
Tank ID:	36062
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	1000
Install Date:	12/01/1977
Date Tank Closed:	01/01/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

Tank Number: 002
Tank ID: 36063
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 2000
Install Date: 12/01/1985
Date Tank Closed: 02/01/2000
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F01 - Pipe External Protection - Painted/Asphalt Coating
D02 - Pipe Type - Galvanized Steel
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)

Tank Number: 008
Tank ID: 36069
Tank Status: Closed - Removed
Material Name: Closed - Removed

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

Capacity Gallons:	2000
Install Date:	Not reported
Date Tank Closed:	01/01/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

Tank Number:	010
Tank ID:	57803
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1000
Install Date:	Not reported
Date Tank Closed:	02/01/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0000
Common Name of Substance:	Empty
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

Tank Number:	VRT1/1
Tank ID:	64381
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	3000
Install Date:	01/01/2000
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2710
Common Name of Substance:	Biodiesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DMMOLOUG
Last Modified:	04/14/2017

Equipment Records:

B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
E04 - Piping Secondary Containment - Double walled UG
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	VRT5/5
Tank ID:	64382
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	2500
Install Date:	01/01/2002
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0010
Common Name of Substance:	Hydraulic Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DMMOLOUG
Last Modified:	04/14/2017

Equipment Records:

E04 - Piping Secondary Containment - Double walled UG

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

C03 - Pipe Location - Aboveground/Underground Combination
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	VRT6/6
Tank ID:	64383
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1000
Install Date:	01/01/2002
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0015
Common Name of Substance:	Motor Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DMMOLOUG
Last Modified:	04/14/2017

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
C03 - Pipe Location - Aboveground/Underground Combination
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
B04 - Tank External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off

Tank Number:	VRT7/7
Tank ID:	64384
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1000
Install Date:	01/01/2002

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DMMOLOUG
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
J00 - Dispenser - None
E04 - Piping Secondary Containment - Double walled UG
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	VRT8/8
Tank ID:	64385
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1000
Install Date:	01/01/2002
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DMMOLOUG
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
J00 - Dispenser - None
A00 - Tank Internal Protection - None

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
K00 - Spill Prevention - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
L00 - Piping Leak Detection - None

P70 **NYC DEPT OF SANITATION - J SCHIAVONE** **RCRA NonGen / NLR** **1000141009**
North **1661 W FARMS RD BX-WA** **FINDS** **NYD986869774**
< 1/8 **BRONX, NY 10460** **ECHO**
0.112 mi.
594 ft. **Site 4 of 8 in cluster P**

Relative:
Higher

Actual:
23 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	NYC DEPT OF SANITATION - J SCHIAVONE
Facility address:	1661 W FARMS RD BX-WA BRONX, NY 10460
EPA ID:	NYD986869774
Mailing address:	58TH ST ROOM 404 WOODSIDE, NY 11377
Contact:	Not reported
Contact address:	58TH ST ROOM 404 WOODSIDE, NY 11377
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	CITY OF NEW YORK
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	CITY OF NEW YORK
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

NYC DEPT OF SANITATION - J SCHIAVONE (Continued) **1000141009**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: NYC DEPT OF SANITATION - J SCHIAVONE
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: NYC DEPT OF SANITATION - J SCHIAVONE
Classification: Not a generator, verified

Date form received by agency: 06/14/1988
Site name: NYC DEPT OF SANITATION - J SCHIAVONE
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: X001
. Waste name: WASTE OILS

Violation Status: No violations found

FINDS:

Registry ID: 110004436646

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NYC DEPT OF SANITATION - J SCHIAVONE (Continued) **1000141009**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000141009
Registry ID:	110004436646
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004436646

P71 **BASEMENT** **NY LTANKS** **S122481732**
North **1661 WEST FARMS ROAD** **N/A**
< 1/8 **BRONX, NY**
0.112 mi.
594 ft. **Site 5 of 8 in cluster P**

Relative:
Higher

Actual:
23 ft.

LTANKS:

Facility ID:	1804171
Site ID:	573835
Closed Date:	Not reported
Spill Number:	1804171
Spill Date:	2018-07-18
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	RHLIN
Referred To:	Not reported
Reported to Dept:	2018-07-18
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	2018-07-18
Spill Record Last Update:	2018-07-19
Spiller Name:	JOHN BONANNO
Spiller Company:	NYS SANITATION
Spiller Address:	1661 WEST FARMS ROAD
Spiller County:	999
Spiller Contact:	JOHN BONANNO
Spiller Phone:	(631) 339-3468
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	211726
DEC Memo:	"7/18/18-Zhune spoke to John Bonanno from AARCO 631-339-3468. John said the tank is a 2000-gallons # 2 fuel oil AST tank. The tank failed the test with a dry and wet leak. 7/18/18-Zhune spoke to Tony Pellegrino. Tony said the site is a NYC Departement of Sanitation facility . They put a new boiler. They tested the old tank and it failed the test. They are going to eliminate the tank and replace it with a new tank. The person in charge of the project is Roy Bloomfield. Tony Pellegrino 718-334-9100 Roy Bloomfield 212-437-4561 7/19/18-A TTF letter sent to: Tonny Pelegrino 52-35 58th Street room

BASEMENT (Continued) **S122481732**

401 Woodside, NY 11377 "
Remarks: "no spill tank is out of service"

All Materials:
Site ID: 573835
Operable Unit ID: 1321642
Operable Unit: 01
Material ID: 2329779
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Oxygenate: Not reported

N72 **1560 BOONE AVENUE** **NY VCP** **S121796994**
North **1560 BOONE AVENUE** **N/A**
< 1/8 **NEW YORK CITY, NY**
0.113 mi.
599 ft. **Site 2 of 6 in cluster N**

Relative:
Higher

Actual:
32 ft.

VCP NYC:
Project ID: 18CVCP028X
Project Name: 1560 BOONE AVENUE
Project Address: 1560 BOONE AVENUE
Borough: BRONX

VCP NYC:
Project ID: 18CVCP028X
File Name: 2017-09-20.RIR
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/18CVCP028X/2017-09-20.17TMP0563X.RIR Phase II Report.Final.pdf

Project ID: 18CVCP028X
File Name: 2017-10-19.RAWP_Draft
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/18CVCP028X/2017-10-20.17TMP0563X.RAWP Draft.pdf

Project ID: 18CVCP028X
File Name: 2017-11-01.Factsheet-1
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/18CVCP028X/2017-11-01.17TMP0563X.Fact Sheet 1 (NYC VCP Application Fact Sheet).Final.pdf

Project ID: 18CVCP028X
File Name: 2017-11-01.Translated_Factsheet-1
URL: http://www.nyc.gov/downloads/pdf/repository/NYCBCP_Bronx/18CVCP028X/2017-11-01.17TMP0563X.Translations - Fact Sheet 1 & CPS.Factsheet 1.pdf

Project ID: 18CVCP028X
File Name: 2017-11-01.Translated_CPS
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/18CVCP028X/Community Protection Statement.pdf

N73 **FERRIS STAHL MEYER PACKING** **NY AST** **A100366116**
North **1560 BOONE AVENUE** **N/A**
< 1/8 **BRONX, NY 10460**
0.113 mi.
599 ft. **Site 3 of 6 in cluster N**

Relative:
Higher

Actual:
32 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-605285
Program Type:	PBS
UTM X:	594009.84685
UTM Y:	4520826.84025
Expiration Date:	N/A
Site Type:	Other

Affiliation Records:

Site Id:	27154
Affiliation Type:	Facility Owner
Company Name:	FERRIS STOLH MEYER PACKING
Contact Type:	PRESIDENT / OWNER
Contact Name:	ANA
Address1:	1560 BOONE AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(718) 538-6825
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2005-12-28

Site Id:	27154
Affiliation Type:	Mail Contact
Company Name:	PAT SEMENTA PLUMBING AND HEATING
Contact Type:	Not reported
Contact Name:	PATRICK L. SEMENTA
Address1:	677 VAN NEST AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10462
Country Code:	001
Phone:	(718) 829-5464
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	27154
Affiliation Type:	Facility Operator
Company Name:	FERRIS STAHL MEYER PACKING
Contact Type:	Not reported
Contact Name:	GUERLAMO / ANA
Address1:	Not reported
Address2:	Not reported
City:	Not reported

FERRIS STAHL MEYER PACKING (Continued) **A100366116**

State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 328-0059 14
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 2005-12-28

Site Id: 27154
Affiliation Type: Emergency Contact
Company Name: FERRIS STOLH MEYER PACKING
Contact Type: Not reported
Contact Name: GIER;A,P
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (201) 538-6825
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 2005-12-28

Tank Info:

Tank Number: 001
Tank Id: 59676
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
I05 - Overfill - Vent Whistle

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 10000
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 01/27/2005
Register: True
Modified By: MXLAY

FERRIS STAHL MEYER PACKING (Continued) **A100366116**

Last Modified: 01/11/2018
Material Name: #2 fuel oil (on-site consumption)

N74 **LOT 15,TAXBLOCK 3014** **NY LTANKS** **S106000141**
North **1560 BOONE AVENUE** **NY RES DECL** **N/A**
< 1/8 **BRONX, NY 10460**
0.113 mi.
599 ft. **Site 4 of 6 in cluster N**

Relative:
Higher

Actual:
32 ft.

LTANKS:

Facility ID:	0307241
Site ID:	290018
Closed Date:	2005-07-19
Spill Number:	0307241
Spill Date:	2003-10-09
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	D4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	MXTIPPLE
Referred To:	Not reported
Reported to Dept:	2003-10-09
CID:	322
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2003-10-09
Spill Record Last Update:	2005-07-19
Spiller Name:	Not reported
Spiller Company:	PRG PACKING
Spiller Address:	1560 BOONE AVE
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	234824
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE 10/9/03-Sangesland spoke with Anna at PRG Packing 718-328-0059. She says several companies have been in to bid on replacing the tank, but she says there is no leak. She says the building closes at 4PM and no one can see the tank later today. The building opens at 6AM. 10/10/03 Tipple visited site//tank replacement//remediation in progress 6/16/04 tipple sent letter requesting documentation and work to continue 3/23/05 Tipple sent letter requiring gw monitoring to continue 7/19/05 Report reviewed//NFA letter sent"
Remarks:	"10,000 GAL ABOVE GROUND TANK IS LEAKING - CALLER WAS CONTACTED FOR CLEAN UP - THEY HAVE NOT BEEN HIRED YET THOUGH"

All Materials:

Site ID:	290018
Operable Unit ID:	876000

LOT 15,TAXBLOCK 3014 (Continued) **S106000141**

Operable Unit:	01
Material ID:	500796
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

ENV RES DECL:

Borough:	BX
Tax Block:	3014
Tax Lot:	15
Reference Number:	R-208
Date Recorded:	12/5/2011
Satisfaction Date:	Not reported
CEQR Number:	10DCP017X
Application Number:	100310 ZMX
Recording Reference Number:	2011000423714
Type:	Air
Lot Remediation Date:	Not reported
Reference Number:	R-208
Date Recorded:	12/5/2011
Satisfaction Date:	Not reported
CEQR Number:	10DCP017X
Application Number:	100310 ZMX
Recording Reference Number:	2011000423714
Type:	Hazmat
Lot Remediation Date:	Not reported
Reference Number:	R-208
Date Recorded:	12/5/2011
Satisfaction Date:	Not reported
CEQR Number:	10DCP017X
Application Number:	100310 ZMX
Recording Reference Number:	2011000423714
Type:	Noise
Lot Remediation Date:	Not reported

N75 **1563 BOONE AVE** **NY AST** **A100291539**
NNW **1563 BOONE AVENUE** **N/A**
< 1/8 **BRONX, NY 10460**
0.115 mi.
607 ft. **Site 5 of 6 in cluster N**

Relative: **Higher**

Actual: **35 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-609862
Program Type:	PBS

1563 BOONE AVE (Continued) **A100291539**

UTM X: 593999.57870
UTM Y: 4520829.52782
Expiration Date: 05/16/2016
Site Type: Auto Service/Repair (No Gasoline Sales)

Affiliation Records:

Site Id: 338190
Affiliation Type: Mail Contact
Company Name: MNG AUTOMOTIVE
Contact Type: Not reported
Contact Name: MELBA SMITH
Address1: 1563 BOONE AVE
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10460
Country Code: 001
Phone: (718) 542-6070
EMail: MNGAUTOMOTIVE@HOTMAIL.COM
Fax Number: Not reported
Modified By: BVCAMPBE
Date Last Modified: 2011-06-03

Site Id: 338190
Affiliation Type: Facility Operator
Company Name: 1563 BOONE AVE
Contact Type: Not reported
Contact Name: MELBA SMITH
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 542-6070
EMail: Not reported
Fax Number: Not reported
Modified By: BVCAMPBE
Date Last Modified: 2011-06-03

Site Id: 338190
Affiliation Type: Emergency Contact
Company Name: MELBA SMITH
Contact Type: Not reported
Contact Name: MELBA SMITH
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 542-6070
EMail: Not reported
Fax Number: Not reported
Modified By: BVCAMPBE
Date Last Modified: 2011-06-03

Site Id: 338190

1563 BOONE AVE (Continued) **A100291539**

Affiliation Type:	Facility Owner
Company Name:	MELBA SMITH
Contact Type:	PRESIDENT
Contact Name:	MELBA SMITH
Address1:	1563 BOONE AVE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(718) 542-6070
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	2011-06-03

Tank Info:

Tank Number:	001
Tank Id:	182281
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

C00 - Pipe Location - No Piping
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
K01 - Spill Prevention - Catch Basin
L00 - Piping Leak Detection - None

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/03/2004
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MABARTLE
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

G76 **SERVICE BOX 2252** **NY Spills** **S104509832**
SE **1230 COLGATE AV** **N/A**
< 1/8 **BRONX, NY**
0.115 mi.
607 ft. **Site 6 of 6 in cluster G**

Relative:
Higher

Actual:
24 ft.

SPILLS:

Facility ID:	9912859
Facility Type:	ER
Spill Number:	9912859
DER Facility ID:	137001
Site ID:	162355
DEC Region:	2

SERVICE BOX 2252 (Continued) **S104509832**

Closed Date:	2000-03-02
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	2000-02-11
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	2000-02-11
CID:	211
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2000-02-11
Spill Record Last Update:	2000-05-22
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	STEVEN CRIBBIN
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL CON ED E2 MIS REPORT 2/11/00 Oily sheen on approx. (100) gallons of water, Conduit plate 12-M indicates no sewer connection. 2/11/00 @12:00hrs. cleanup is in progress but will take longer than the two hours mentioned earlier, sheen is being soaked up with diapers. 2/11/00 @12:45 hrs. sheen in service box #2252 has been vleaned up (1) plastic bag of absorbant diapers was generated an dwill be disposed as industrial waste."
Remarks:	"sheen found on water - clean up in progress - con ed 129948"

All Materials:

Site ID:	162355
Operable Unit ID:	1087396
Operable Unit:	01
Material ID:	294724
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

N77 **CON EDISION** **NY MANIFEST** **S116290841**
NNW **1559 BOONE AV** **N/A**
< 1/8 **BRONX, NY 10460**
0.115 mi.
608 ft. **Site 6 of 6 in cluster N**

Relative:
Higher

Actual:
35 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004592275
Facility Status:	Not reported
Location Address 1:	1559 BOONE AV
Code:	BP
Location Address 2:	SB24985
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004592275
Mailing Name:	CON EDISION
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/10/2014
Trans1 Recv Date:	07/10/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004592275
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503560GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISION (Continued) **S116290841**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

K78 **G M T TILE CORP** **RCRA NonGen / NLR** **1000141173**
SSW **1077 HOME ST** **FINDS** **NYD981179120**
< 1/8 **BRONX, NY 10459** **ECHO**
0.120 mi. **NY MANIFEST**
635 ft. **Site 4 of 6 in cluster K**

Relative: **Higher**
Actual: **39 ft.**

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	G M T TILE CORP
Facility address:	1077 HOME ST BRONX, NY 10459-2601
EPA ID:	NYD981179120
Mailing address:	OAK POINT AVE BRONX, NY 10474
Contact:	Not reported
Contact address:	OAK POINT AVE BRONX, NY 10474
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	GMT TILE CORP
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212

G M T TILE CORP (Continued) **1000141173**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GMT TILE CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: G M T TILE CORP
Classification: Not a generator, verified

Date form received by agency: 09/07/1999
Site name: G M T TILE CORP
Classification: Not a generator, verified

Date form received by agency: 01/09/1986
Site name: G M T TILE CORP
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

G M T TILE CORP (Continued) **1000141173**

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/18/1988
Date achieved compliance: 09/02/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/19/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/31/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 01/28/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/18/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/02/1988
Evaluation lead agency: State

FINDS:

Registry ID: 110004401923

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

G M T TILE CORP (Continued) **1000141173**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000141173
Registry ID:	110004401923
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004401923

NY MANIFEST:

Country:	USA
EPA ID:	NYD981179120
Facility Status:	Not reported
Location Address 1:	1077 HOME ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10474
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD981179120
Mailing Name:	G M T TILE CORPORATION
Mailing Contact:	G M T TILE CORPORATION
Mailing Address 1:	1255 OAK POINT AVE.
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10474
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2129918500

NY MANIFEST:

Document ID:	NJA1358362
Manifest Status:	K
seq:	Not reported
Year:	1992
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	05/13/1992
Trans1 Recv Date:	05/13/1992
Trans2 Recv Date:	/ /
TSD Site Recv Date:	05/20/1992
Part A Recv Date:	/ /
Part B Recv Date:	06/09/1992
Generator EPA ID:	NYD981179120
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported

G M T TILE CORP (Continued) **1000141173**

TSDF ID 1:	NJD002182897
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	F005 - UNKNOWN
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	01168
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Q79 **CON EDISON MANHOLE 21800** **NY MANIFEST** **S121967040**
SSW **WESTCHESTER AVE & WHITLOCK AVE** **N/A**
< 1/8 **BRONX, NY 10459**
0.121 mi.
638 ft. **Site 1 of 8 in cluster Q**

Relative:
Higher

Actual:
33 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004223723
Facility Status:	Not reported
Location Address 1:	WESTCHESTER AVE & WHITLOCK AVE INT
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004223723
Mailing Name:	CON EDISON MANHOLE 21800
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY

CON EDISON MANHOLE 21800 (Continued) **S121967040**

Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Q80 **CON EDISON** **NY MANIFEST** **S117313593**
SSW **WESTCHESTER AVE & WHITLOCK AVE** **N/A**
< 1/8 **BRONX, NY 10459**
0.121 mi.
638 ft. **Site 2 of 8 in cluster Q**

Relative:
Higher

Actual:
33 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004604104
Facility Status:	Not reported
Location Address 1:	WESTCHESTER AVE & WHITLOCK AVE
Code:	BP
Location Address 2:	TM 657
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004604104
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	07/22/2014
Trans1 Recv Date:	07/22/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/25/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004604104
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046

CON EDISON (Continued) **S117313593**

TSDF ID 2:	Not reported
Manifest Tracking Number:	013256339JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Q81 **CON EDISON MANHOLE 21800** **RCRA NonGen / NLR** **1014918753**
SSW **WESTCHESTER AVE & WHITLOCK AVE** **NYP004223723**
< 1/8 **BRONX, NY 10459**
0.121 mi.
638 ft. **Site 3 of 8 in cluster Q**

Relative: RCRA NonGen / NLR:
Higher

Actual: Date form received by agency: 02/11/2011
33 ft.

Facility name:	CON EDISON MANHOLE 21800
Facility address:	WESTCHESTER AVE & WHITLOCK AVE BRONX, NY 10459
EPA ID:	NYP004223723
Mailing address:	IRVING PL RM 828 NEW YORK, NY 10003
Contact:	GINO FRABASILE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	914-925-6219
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator

CON EDISON MANHOLE 21800 (Continued) **1014918753**

Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/12/2011
Site name: CON EDISON MANHOLE 21800
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

R82 **WELFARE OFFICE BLDG - GETTY PROPERTIES #329** **NY Spills** **S102560528**
SSE **1209 COLGATE AVE** **N/A**
< 1/8 **BRONX, NY**
0.121 mi.
639 ft. **Site 1 of 9 in cluster R**

Relative: **Higher**
Actual: **22 ft.**

SPILLS:
Facility ID: 9712845
Facility Type: ER
Spill Number: 9712845
DER Facility ID: 119911
Site ID: 140405
DEC Region: 2
Closed Date: 1998-02-18
Spill Cause: Unknown
Spill Class: A3
SWIS: 0301
Spill Date: 1998-02-18
Investigator: MCTIBBE
Referred To: Not reported
Reported to Dept: 1998-02-18
CID: 266
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Affected Persons
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1998-02-18

WELFARE OFFICE BLDG - GETTY PROPERTIES #329 (Continued) **S102560528**

Spill Record Last Update:	1998-02-18
Spiller Name:	Not reported
Spiller Company:	GETTY GAS STATION
Spiller Address:	BRONX RIVER AV & WESTCHES
Spiller Company:	001
Contact Name:	BARBARA QUINLAN
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE REFER TO 97-00109. SEE ALSO 97-04954 & 95-04305. "
Remarks:	"ONGOING PROBLEM. EVERYTIME IT RAINS, FUMES ENTER BUILDING THROUGH BASEMENT. CALLER STATES THAT DEC HAS BEEN NOTIFIED OF THIS BEFORE. CALLER ADVISED TO CALL FIRE DEPARTMENT IF ANYONE BECOMES SICK THERE."

All Materials:

Site ID:	140405
Operable Unit ID:	1055696
Operable Unit:	01
Material ID:	327430
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9700109
Facility Type:	ER
Spill Number:	9700109
DER Facility ID:	301694
Site ID:	74616
DEC Region:	2
Closed Date:	2012-09-25
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	1997-04-02
Investigator:	KGHALE
Referred To:	DPES SHUTDOWN 12/2006, NEED LOWER BENZENE LEVEL
Reported to Dept:	1997-04-02
CID:	370
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Fire Department
Cleanup Ceased:	1998-01-06
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	1997-04-02
Spill Record Last Update:	2012-09-25
Spiller Name:	Not reported
Spiller Company:	GAS STATION NEXT DOOR
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	001
Contact Name:	ABOVE

WELFARE OFFICE BLDG - GETTY PROPERTIES #329 (Continued) **S102560528**

DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT SEE ALSO 97-04954 & 97-12845 & 95-04305. CHANGE DEC INVESTIGATOR TO VOUGHT 3/27/03 REASSIGNED FROM ROMMEL TO VOUGHT. 10/20/2005 - case reviewed by Feng: Received a complaint of gasoline vapors at 1209 Colgate Ave in Bronx (97-00109). Getty service station located next door @ 1441 Westchester ave, had a tank overfill. This gasoline traveled underground into the basement of 1209 Colgate Ave. This overfill compounded an existing soil and groundwater problem from the former gasonline tanks (#95-04305). STIP on January 6, 1998. by sighing this STIP, Getty takes the responsiblity of cleanup of 1209 Colgate Ave contamination. Dual Phase Extraction System has been on to address the contamination. Quarterly Monitoring Report, 3/2005 - 5/2005. Quarterly gauging and sampling. groundwater flow in west direction. 20 monitoring wells onsite. BTEX and MTBE in low concentration, such as 93.39ppb BTEX and 37.4ppb MTBE in W-1 (12.16' bg). 11/16/2006 - Feng - Quarterly Monitoring Report, 5/2006 - 7/2006, 7/2006, by Tyree. Active gasoline retail/service station. Groundwater sampled and gauged 7/3/2006. 20 monitoring wells. DTW 10.70' to 14.55' bg. Flow direction west. No LNAPL. BTEX range ND to 680.7 ppb (MW-4). MTBE range ND to 16.4 ppb (MW-6). Monthly inspection of the air stripper system and the SVE system. No effluent samples taken this quarter until system fixed. (RJF) 11/17/2006 - Feng - Quarterly Monitoring Report, 8/2006 - 10/2006, 10/2006, by Tyree. Active gasoline retail/service station. Groundwater sampled and gauged 10/18/2006. 20 monitoring wells. DTW 9.07' to 14.75' bg. Flow direction west. No LNAPL. BTEX range ND to 662.1 ppb (MW-4). MTBE range ND to 18.2 ppb (MW-6). 1/18/2007 - Feng - Getty Properties portfolio meeting with Tyree and Delta. System shutdown 12/2006 and quarterly monitoring for 2007. (RJF) 2/22/2007 - Feng - Quarterly Monitoring Report, 10/2006 - 1/2007, 1/2007, by Tyree. Active gasoline retail/service station. Groundwater sampled and gauged 1/2/2007. 20 monitoring wells. DTW 9.20' to 13.17' bg. Flows westerly. No LNAPL. MW-1, BTEX BDL, 4.2 ppb MTBE. MW-2, 11.99 ppb BTEX, 2.4 ppb MTBE. MW-3, BTEX BDL, 3.1 ppb MTBE. MW-4, 511.3 ppb BTEX, 21.1 ppb MTBE. MW-5, 125.2 ppb BTEX, 18.9 ppb MTBE. MW-6, 270.7 ppb BTEX, 19 ppb MTBE. MW-7, BDL. MW-8, BTEX BDL, 1.4 ppb MTBE. MW-9, 0.52 ppb BTEX, 1.9 ppb MTBE. MW-10, BTEX BDL, 0.85 ppb MTBE. MW-11, 52.95 ppb BTEX, 15.1 ppb MTBE. MW-12, BDL. MW-13, BTEX BDL, 12 ppb MTBE. MW-14, BDL. MW-15, 77 ppb BTEX, 10.2 ppb MTBE. MW-16, BTEX BDL, 8.98 ppb MTBE. MW-17, BTEX BDL, 0.66 ppb MTBE. MW-18, BTEX BDL, 3.5 ppb MTBE. GPW-1, not sampled. GPW-2, BTEX BDL, 7 ppb MTBE. (RJF) 7/3/2007 - Feng - Quarterly Monitoring Report, 2/2007 - 5/2007, 5/2007. Groundwater sampled 4/26/2007. 20 monitoring wells. DTW 9.63' to 12.5' bg. Flows to west. No LNAPL. BTEX range ND to 144.67 ppb (MW-4). MTBE range ND to 18.9 ppb (MW-5). (RJF) 9/28/2007 - Feng - Quarterly Monitoring Report, 5/2007 - 7/2007, 7/2007. Groundwater sampled 7/23/2007. 20 monitoring wells. DTW 8.96' to 14.59' bg. Flows to west. No LNAPL. MW-4, 384.6 ppb BTEX, 8.3 ppb MTBE. MW-5, 48.9 ppb BTEX, 6.9 ppb MTBE. MW-6, 193.3 ppb BTEX, 11.7 ppb MTBE. The other wells are BDL or low. (RJF) 10/2/2007 - Feng - Sensitive Receptor Survey, 7/20/2007. Tyree requested spill closure. The dual phase extraction system was shutdown 12/2006. It needs 8 quarters of monitoring after the remedial system is shutdown. Groundwater concentration is fluctuating in MW-4. Spill closure denied. (RJF) 11/8/2007 - Feng - Portfolio meeting with Delta and Tyree. The benzene level is still high as indicated in the quarterly report. Need to reduce the benzene level for closure. (RJF) 1/23/2008 - Feng

WELFARE OFFICE BLDG - GETTY PROPERTIES #329 (Continued) **S102560528**

- Quarterly Monitoring Report, 8/2007 - 10/2007, 10/2007. Active gasline retail/service station. Groundwater gauged and sampled 10/9/2007. 20 monitoring wells. DTW 9.61' to 13' bg. Flows to west. No LNAPL. BTEX range ND to 363.1 ppb (MW-4). MTBE range ND to 48.7 ppb (MW-3). (RJF) 5/14/2008 - Feng - Quarterly Monitoring Report, 11/2007 - 1/2008, 3/2008. Active gasoline retail/service station. Groundwater was gauged and sampled 1/16/2008. 20 monitoring wells. DTW 9.00' to 14.64' bg. Flows to west. No LNAPL. BTEX range ND to 403.4 ppb (MW-4). MTBE range ND to 9.6 ppb. (RJF) 7/11/2008 - 2Q2008, 2/2008 - 5/2008, 5/2008. Active gasoline retail service station. Groundwater was gauged and sampled 4/23/2008. 20 monitoring wells. DTW 9.93' to 14.16' bg. Flows to west. No LNAPL. BTEX range ND to 472 ppb (MW-4). MTBE range ND to 22 ppb (MW-3). Email to Tyree for additional remediation to address the benzene problem. (RJF) 9/4/2008 - Getty Properties portfolio meeting with Tyree and Delta. Need to bring down the benzene level for closure. Will put borings in the historical contaminated area. Petition plan for closure by 1Q2009. (RJF) 1/6/2009 - Getty Properties portfolio meeting with Tyree and Delta. Closure petition plan by 3/2009. (RJF) 4/20/2009 - Quarterly Monitoring Report, 6/2008 - 8/2008, 9/2008, by Tyree. Active gasoline retail service station. Groundwater was gauged and sampled 7/31/2008. 20 monitoring wells. DTW 9.34' to 14.72' bg. Flows to west. NO LNAPL> BTEX range ND to 362 ppb (W-4). MTBE range ND to 49.2 ppb (W-3). System turned off as of December 2006 due to low effluent levels and low groundwater levels. (RJF) 4/23/2009 - Reviewed Investigation Work Plan, dated 3/20/2009, by Tyree. Tyree proposed 3 soil borings. DEC provided comments on the work plan and email to Tyree. see eDocs. Revision due 5/23/2009. (RJF) 6/8/2009 - Reviewed Investigation Work Plan revision, dated 5/6/2009, by Tyree. Tyree proposed 8 soil borings, will run STARS for every borings, and run TCLP for 3 soil borings. Work plan is approved. Investigation Report due within 90 days of the approval, 9/8/2009. (RJF) 6/18/2009 - Quarterly Monitoring Report, 1/2009 - 3/2009, 5/2009, pdf via email, by Tyree. Active gasoline retail service station. Monthly gauging and quarterly sampling. Groundwater was sampled 3/27/2009. 20 monitoring wells. DTW 9.73' (MW-18) to 14.34' (MW-16) bgs. Flows to west. NO LNAPL. BTEX range ND to 312.5 ppb (MW-4), residual mainly is benzene. MTBE range ND to 44.7 ppb (MW-3). System turned off as of 12/2006 due to low effluent levels and low groundwater levels. (RJF) 2/1/2012 - KGH meets with R2 staff to discuss Getty Bankruptcy Case and closure petitions. Consensus of senior staff is that Spill # 97-00109 has been cleaned-up significantly and it is appropriate to consider closure 9/25/2012 - 2/8/12 - KGH - Vapor impacts to neighboring buildings first grought this site to DEC attention. This was quickly resolved by NYFD & DEC Spills Unit. Inaccesible residual soil contamination may remain beneath this active retail station but will biodegrade over time and present no off-site impacts. GW concentrations have steadily decreased and have remained beneath 0.25 ppm Total BTEX for several years. The Department is requiring No Further Action at this time. Spill is being closed as currently Not Meeting Standards. Additional data may be submitted in the future for consideration of an upgrade in closure status. NFA"

Remarks: "FIRE DEPT HAZ MAT TEAM THINKS THERE IS A LEAK IN AN UNDERGROUND TANK - THEY REQ A REP FROM DEC TO RESPOND"

All Materials:
Site ID: 74616
Operable Unit ID: 1042824

WELFARE OFFICE BLDG - GETTY PROPERTIES #329 (Continued) **S102560528**

Operable Unit:	01
Material ID:	336721
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9704954
Facility Type:	ER
Spill Number:	9704954
DER Facility ID:	69997
Site ID:	74617
DEC Region:	2
Closed Date:	1997-11-19
Spill Cause:	Unknown
Spill Class:	B3
SWIS:	0301
Spill Date:	1997-07-25
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1997-07-25
CID:	369
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-07-25
Spill Record Last Update:	1998-02-18
Spiller Name:	UNKNOWN
Spiller Company:	GAS STATION NEXT DOOR TO
Spiller Address:	1209 COLGATE AVE
Spiller Company:	001
Contact Name:	MRS QUINLAN
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE GETTY GAS STATION, REFER TO 97-00109. SEE ALSO 97-12845 & 95-04305. "
Remarks:	"FD EVACUATED HUD HOUSING PROJECT YESTERDAY FOR SAME PROBLEM-SMELL OF GASOLINE IS COMING THROUGH BASEMENT WALL-CALLER STATES IT IS COMING FROM GAS STATION NEXT DOOR-NO ADRESS OR PHONE FOR IT"

All Materials:

Site ID:	74617
Operable Unit ID:	1048333
Operable Unit:	01
Material ID:	334190
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported

WELFARE OFFICE BLDG - GETTY PROPERTIES #329 (Continued) **S102560528**

Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

R83 **BELOW DISPENSORS** **NY Spills** **S116553269**
SSE **1441 WESTCHESTER AVE** **N/A**
< 1/8 **BRONX, NY**
0.121 mi.
640 ft. **Site 2 of 9 in cluster R**

Relative: **Higher**
Actual: **21 ft.**

SPILLS:

Facility ID:	1311378
Facility Type:	ER
Spill Number:	1311378
DER Facility ID:	70117
Site ID:	492273
DEC Region:	2
Closed Date:	2014-03-31
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2014-03-05
Investigator:	RJFENG
Referred To:	Not reported
Reported to Dept:	2014-03-05
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2014-03-05
Spill Record Last Update:	2014-03-31
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	TIM FISHER
DEC Memo:	"3/5/2014 - Feng - Spoke with Tim Fisher of Antea Group (timothy.fisher.@anteagroup.com, 949-375-1174). Antea Group has been retained by Getty Realty. Alliance Energy is the tenant and has been operated the site for a year. The contractor for Alliance Energy found impacts in the pea gravel beneath the dispensers. Antea Group has screened the pea gravel with PID and found one dispenser with 323 ppm and another dispenser with 273 ppm. Alliance's contractor has removed the pea gravel and cleaned the sump. The gravel will be stored into a 50-gallon drum and will be disposed. They have disconnected the dispensers and tested with water and found no leak in tht dispensers pan so it should not released to the subsurface. There is no indication of problem of the dispensers. The station is in the process of putting new dispensers and should be completing the

BELOW DISPENSORS (Continued) **S116553269**

work today or tomorrow, but there is no plan to collect soil sample beneath the dispensers upon they remove the whole dispensers out. Contact for Alliance's environmental management, David Went 339-368-0668. Spoke with David Went (339-369-0668, dwent@AllianceEnergy.com). Advised him on the removing of impacted soil, if there is any, and collecting soil sample while removing the dispensers. But he said that they are not removing the dispensers pans, the pans have been tested tighted so no need to remove that. Therefore, no soil will be exposed and removed. 3/31/2014 - received and reviewed a letter report from Tyree dated 3/31/2014 documenting the incidents associated with the dispensers and the removal of the stained and odored pea gravels. Spill is closed."

Remarks: "clean up underway."

All Materials:

Site ID:	492273
Operable Unit ID:	1241808
Operable Unit:	01
Material ID:	2242295
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

R84 **ESTEVEN SERVICE STATION INC** **EDR Hist Auto** **1020631131**
SSE **1441 WESTCHESTER AVE** **N/A**
< 1/8 **BRONX, NY 10472**
0.121 mi.
640 ft. **Site 3 of 9 in cluster R**

Relative: EDR Hist Auto
Higher

Actual:
21 ft.

Year:	Name:	Type:
1969	GEORGE & PETES SERVICE CENTER	Gasoline Service Stations
1969	GEORGE & PETES SERVICE CENTER	Gasoline Service Stations
1970	GEORGE & PETES SERVICE CENTER	Gasoline Service Stations
1971	GEORGE & PETES SERVICE CENTER	Gasoline Service Stations
1972	GEORGE & PETES SERVICE CENTER	Gasoline Service Stations
1973	GEORGE & PETES SERVICE CENTER	Gasoline Service Stations
1974	GEORGE & PETES SERVICE CENTER	Gasoline Service Stations
1975	GEORGE & PETES SERVICE CENTER	Gasoline Service Stations
1976	GEORGE & PETES SERVICE CENTER	Gasoline Service Stations
1991	GETTY GAS & SERVICE STATION	Gasoline Service Stations
1992	GETTY GAS & SERVICE STATION	Gasoline Service Stations
1993	GETTY GAS & SERVICE STATION	Gasoline Service Stations
1994	GETTY GAS & SERVICE STATION	Gasoline Service Stations
1995	GETTY GAS & SERVICE STATION	Gasoline Service Stations
2000	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2001	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2002	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2003	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2004	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2005	E&S AUTO INC	General Automotive Repair Shops

ESTEVEN SERVICE STATION INC (Continued) **1020631131**

2005	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2006	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2006	E&S AUTO INC	General Automotive Repair Shops
2007	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2007	E&S AUTO INC	General Automotive Repair Shops
2008	E&S AUTO INC	General Automotive Repair Shops
2008	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2009	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2010	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2011	ESTEVEN SERVICE STATION INC	Gasoline Service Stations
2012	ESTEVEN SERVICE STATION INC	Gasoline Service Stations

R85 **GLOBAL MONTELLO GROUP CORP. #5421** **NY UST** **U004062934**
SSE **1441 WESTCHESTER AVENUE** **N/A**
< 1/8 **BRONX, NY 10472**
0.121 mi.
640 ft. **Site 4 of 9 in cluster R**

Relative:
Higher

Actual:
21 ft.

UST:

Id/Status:	2-152897 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	07/24/2020
UTM X:	594222.32902
UTM Y:	4520329.74943
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	4810
Affiliation Type:	Facility Owner
Company Name:	LEEMILTS PETROLEUM.
Contact Type:	AUTHORIZED REPRESENTATIVE
Contact Name:	MEGAN KAZMIERCZAK
Address1:	2 JERICHO TURNPIKE, WING C, SUITE 110
Address2:	Not reported
City:	JERICHO
State:	NY
Zip Code:	11753
Country Code:	001
Phone:	(516) 478-0540
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2017-07-12

Site Id:	4810
Affiliation Type:	Emergency Contact
Company Name:	LEEMILTS PETROLEUM.
Contact Type:	Not reported
Contact Name:	CALL CENTER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(888) 674-7601

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **U004062934**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2013-05-10

Site Id:	4810
Affiliation Type:	Facility Operator
Company Name:	GLOBAL MONTELLO GROUP CORP. #5421
Contact Type:	Not reported
Contact Name:	ERIC HARVEY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 991-9104
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2017-07-12

Site Id:	4810
Affiliation Type:	Mail Contact
Company Name:	ATC ECLIPSE
Contact Type:	Not reported
Contact Name:	MEGAN KAZMIERCZAK
Address1:	705 A LAKEVIEW PLAZA BLVD.
Address2:	Not reported
City:	WORTHINGTON
State:	OH
Zip Code:	43085
Country Code:	001
Phone:	(614) 433-0170
EMail:	MEGAN.KAZMIERCZAK@ATCGS.COM
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2018-09-21

Tank Info:

Tank Number:	001
Tank ID:	19488
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	08/01/1995
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol

Tightness Test Method:	21
Date Test:	12/05/2002
Next Test Date:	Not reported

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **U004062934**

Pipe Model: Not reported
Modified By: DAFRANCI
Last Modified: 07/13/2017

Equipment Records:

L07 - Piping Leak Detection - Pressurized Piping Leak Detector
I01 - Overfill - Float Vent Valve
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
E04 - Piping Secondary Containment - Double walled UG
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
F05 - Pipe External Protection - Jacketed
G04 - Tank Secondary Containment - Double-Walled (Underground)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
B04 - Tank External Protection - Fiberglass

Tank Number: 002
Tank ID: 19489
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 10/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number: 003
Tank ID: 19490
Tank Status: Closed - Removed
Material Name: Closed - Removed

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **U004062934**

Capacity Gallons:	550
Install Date:	01/01/1953
Date Tank Closed:	06/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	10/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	005
Tank ID:	19492
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1953
Date Tank Closed:	06/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	10/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
I00 - Overfill - None

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **U004062934**

Tank Number:	006
Tank ID:	19493
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1953
Date Tank Closed:	06/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	10/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	007
Tank ID:	19494
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1953
Date Tank Closed:	06/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	10/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **U004062934**

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	008
Tank ID:	19495
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	01/01/1953
Date Tank Closed:	06/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	10/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	009
Tank ID:	19496
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	01/01/1953
Date Tank Closed:	06/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	10/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **U004062934**

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	010
Tank ID:	19497
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	01/01/1953
Date Tank Closed:	06/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	10/01/1993
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	011
Tank ID:	19498
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	550
Install Date:	01/01/1953
Date Tank Closed:	06/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **U004062934**

Tightness Test Method: ZZ
Date Test: 04/01/1989
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number: 012
Tank ID: 19499
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: ZZ
Date Test: 04/01/1989
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number: 013
Tank ID: 19500
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **U004062934**

Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	ZZ
Date Test:	04/01/1989
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number:	2001A
Tank ID:	49770
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	8000
Install Date:	08/01/1995
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol
Tightness Test Method:	21
Date Test:	12/05/2002
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TLYE
Last Modified:	03/20/2018

Equipment Records:

L07 - Piping Leak Detection - Pressurized Piping Leak Detector
I01 - Overfill - Float Vent Valve
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
J01 - Dispenser - Pressurized Dispenser
E04 - Piping Secondary Containment - Double walled UG
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
F05 - Pipe External Protection - Jacketed
G04 - Tank Secondary Containment - Double-Walled (Underground)
I02 - Overfill - High Level Alarm

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **U004062934**

K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
B04 - Tank External Protection - Fiberglass

Tank Number:	2001B
Tank ID:	49771
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	0
Install Date:	08/01/1995
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol
Tightness Test Method:	21
Date Test:	12/05/2002
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TLYE
Last Modified:	03/20/2018

Equipment Records:

L07 - Piping Leak Detection - Pressurized Piping Leak Detector
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I01 - Overfill - Float Vent Valve
A00 - Tank Internal Protection - None
E04 - Piping Secondary Containment - Double walled UG
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
F05 - Pipe External Protection - Jacketed
G04 - Tank Secondary Containment - Double-Walled (Underground)
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)

R86 **GETTY #329** **NY LTANKS** **S107787668**
SSE **1441 WESTCHESTER AVE** **NY Spills** **N/A**
< 1/8 **BRONX, NY**
0.121 mi.
640 ft. **Site 5 of 9 in cluster R**

Relative: **Higher**
Actual: **21 ft.**

LTANKS:

Facility ID:	9504305
Site ID:	74807
Closed Date:	2006-01-05
Spill Number:	9504305
Spill Date:	1995-07-10
Spill Cause:	Tank Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	A3
Cleanup Ceased:	Not reported

GETTY #329 (Continued) **S107787668**

SWIS:	0301
Investigator:	rjfeng
Referred To:	REFER TO #97-00109
Reported to Dept:	1995-07-10
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1995-08-07
Spill Record Last Update:	2006-01-05
Spiller Name:	Not reported
Spiller Company:	GETTY STATION
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	70117
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT SEE ALSO 97-04954 & 97-12845 & 97-00109. 04/11/03 Transfered from Tibbe to Vought 08/31/2005 - Feng - Project transferred from Vought to Feng. 10/20/2005 - Feng - Refer to Spill#: 97-00109 1/5/2006 - Feng - Spill closed and refer to 97-00109 @ same location. (RJF)"
Remarks:	"COMPANY IS REMOVING UNDERGROUND TANKS AND HAVE FOUND CONTAMINATED SOIL NOTE/ CALLER WAS GIVEN A WRONG # OF 95-04280"

All Materials:

Site ID:	74807
Operable Unit ID:	1015353
Operable Unit:	01
Material ID:	365814
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Facility ID:	0700976
Facility Type:	ER
Spill Number:	0700976
DER Facility ID:	70117
Site ID:	380374
DEC Region:	2
Closed Date:	2007-06-26
Spill Cause:	Housekeeping
Spill Class:	C4

GETTY #329 (Continued) **S107787668**

SWIS:	0301
Spill Date:	2007-04-24
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2007-04-24
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2007-04-24
Spill Record Last Update:	2007-06-26
Spiller Name:	MIKE CARR
Spiller Company:	GETTY#329
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	001
Contact Name:	MIKE CARR
DEC Memo:	"leak in inner wall of double walled tank 6/21/2007 Tyree report says product in the interstitial space has been vaced out. Equipment has been cleaned & inspected. - No further action needed. manifest of 3 gal liquid"
Remarks:	"IN INTERSTICIAL SPACE:"

All Materials:

Site ID:	380374
Operable Unit ID:	1137852
Operable Unit:	01
Material ID:	2127809
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0702499
Facility Type:	ER
Spill Number:	0702499
DER Facility ID:	70117
Site ID:	382240
DEC Region:	2
Closed Date:	2007-06-26
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2007-05-30
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2007-05-30
CID:	408

GETTY #329 (Continued) **S107787668**

Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2007-05-30
Spill Record Last Update:	2007-06-26
Spiller Name:	SCOT HANLEY
Spiller Company:	GETTY #329
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	001
Contact Name:	MIKE CARR
DEC Memo:	"surface spill on asphalt - all cleaned"
Remarks:	"HAS BEEN CLEANED;"

All Materials:

Site ID:	382240
Operable Unit ID:	1139643
Operable Unit:	01
Material ID:	2129685
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0711051
Facility Type:	ER
Spill Number:	0711051
DER Facility ID:	70117
Site ID:	392464
DEC Region:	2
Closed Date:	2008-01-28
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-01-18
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-01-18
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0

GETTY #329 (Continued) **S107787668**

Date Entered In Computer:	2008-01-18
Spill Record Last Update:	2008-01-28
Spiller Name:	MIKE CARR\\
Spiller Company:	GETTY#329
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	001
Contact Name:	MIKE CARR\\
DEC Memo:	"01/18/08-Vought-Duty desk officer. Spill assigned to DEC Sangesland as minor spill and Sangesland managing Getty portfolio as per DEC Austin. Tyree report states: waste oil on asphalt, speedy dry applied - all cleaned up "
Remarks:	"ALL CLEANED UP"

All Materials:

Site ID:	392464
Operable Unit ID:	1149469
Operable Unit:	01
Material ID:	2139995
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	1.00
Oxygenate:	Not reported

Facility ID:	0713251
Facility Type:	ER
Spill Number:	0713251
DER Facility ID:	70117
Site ID:	394977
DEC Region:	2
Closed Date:	2008-03-17
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-03-14
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-03-14
CID:	404
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-03-14
Spill Record Last Update:	2008-03-17
Spiller Name:	MIKE CARR\\
Spiller Company:	GETTY 329
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	001

GETTY #329 (Continued) **S107787668**

Contact Name:	MIKE CARR\\
DEC Memo:	"minor spill - all cleaned"
Remarks:	"less than 1 gallon spilled; all cleaned up"

All Materials:

Site ID:	394977
Operable Unit ID:	1151924
Operable Unit:	01
Material ID:	2142691
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0712861
Facility Type:	ER
Spill Number:	0712861
DER Facility ID:	70117
Site ID:	394539
DEC Region:	2
Closed Date:	2008-03-07
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-03-07
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-03-07
CID:	408
Water Affected:	Not reported
Spill Source:	Passenger Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-03-07
Spill Record Last Update:	2008-03-07
Spiller Name:	Not reported
Spiller Company:	CUSTOMER CAR
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	MIKE CARR\\
DEC Memo:	"minor spill - all cleaned"
Remarks:	"vehicle gas tank leaked and has been cleaned;"

All Materials:

Site ID:	394539
Operable Unit ID:	1151491
Operable Unit:	01
Material ID:	2142219

GETTY #329 (Continued) **S107787668**

Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	6.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0803178
Facility Type:	ER
Spill Number:	0803178
DER Facility ID:	70117
Site ID:	399872
DEC Region:	2
Closed Date:	2008-06-17
Spill Cause:	Other
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-06-17
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-06-17
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-06-17
Spill Record Last Update:	2008-06-17
Spiller Name:	MIKE CARR‘
Spiller Company:	GETTY#329
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	001
Contact Name:	MIKE CARR‘
DEC Memo:	"minor spill - all cleaned"
Remarks:	"CUSTOMER OVERFILL AND CLEANED : LESS THEN 1 GALLON"

All Materials:

Site ID:	399872
Operable Unit ID:	1156728
Operable Unit:	01
Material ID:	2147678
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

GETTY #329 (Continued) **S107787668**

Facility ID:	0801685
Facility Type:	ER
Spill Number:	0801685
DER Facility ID:	70117
Site ID:	397669
DEC Region:	2
Closed Date:	2008-05-15
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-05-13
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-05-13
CID:	404
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-05-13
Spill Record Last Update:	2008-05-15
Spiller Name:	MIKE CARR‘
Spiller Company:	GETTY 329
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	001
Contact Name:	MIKE CARR‘
DEC Memo:	"minor spills - housekeeping issues"
Remarks:	"1pint of antifreeze; 1/4 of a pint of waste oil; and less than 1 gallon of gasoline; all cleaned up"

All Materials:

Site ID:	397669
Operable Unit ID:	1154611
Operable Unit:	01
Material ID:	2145420
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	397669
Operable Unit ID:	1154611
Operable Unit:	01
Material ID:	2145421
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	.00

GETTY #329 (Continued) **S107787668**

Units:	G
Recovered:	.00
Oxygenate:	Not reported
Site ID:	397669
Operable Unit ID:	1154611
Operable Unit:	01
Material ID:	2145419
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported
Facility ID:	0800752
Facility Type:	ER
Spill Number:	0800752
DER Facility ID:	70117
Site ID:	396560
DEC Region:	2
Closed Date:	2008-04-18
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-04-18
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-04-18
CID:	408
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-04-18
Spill Record Last Update:	2008-04-18
Spiller Name:	SCOTT HANLEY
Spiller Company:	GETTY #329
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	001
Contact Name:	MIKE CARR‘
DEC Memo:	"minor spill - all cleaned"
Remarks:	"HAS BEEN CLEANED;"

All Materials:

Site ID:	396560
Operable Unit ID:	1153531
Operable Unit:	01
Material ID:	2144299
Material Code:	0009

GETTY #329 (Continued) **S107787668**

Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0810395
Facility Type:	ER
Spill Number:	0810395
DER Facility ID:	70117
Site ID:	407914
DEC Region:	2
Closed Date:	2009-01-29
Spill Cause:	Other
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-12-15
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-12-15
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2008-12-15
Spill Record Last Update:	2009-01-29
Spiller Name:	DERRICK ATKINSON
Spiller Company:	GETTY
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	999
Contact Name:	DERRICK ATKINSON
DEC Memo:	"This monitoring well problem is associated with an ongoing remediation #9700109 This spill number is closed - Ref #9700109"
Remarks:	"Smell of gasoline detected in monitoring well #15 during routine sampling"

All Materials:

Site ID:	407914
Operable Unit ID:	1164448
Operable Unit:	01
Material ID:	2155823
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

GETTY #329 (Continued) **S107787668**

Facility ID:	0504506
Facility Type:	ER
Spill Number:	0504506
DER Facility ID:	70117
Site ID:	349363
DEC Region:	2
Closed Date:	2005-07-15
Spill Cause:	Housekeeping
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2005-07-15
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	2005-07-15
CID:	409
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2005-07-15
Spill Record Last Update:	2005-07-15
Spiller Name:	CAILYN DINAN
Spiller Company:	GETTY STATION#329
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	001
Contact Name:	CAILYN DINAN
DEC Memo:	""
Remarks:	"1/2 GAL AND HAS BEEN CLEANED UP."

All Materials:

Site ID:	349363
Operable Unit ID:	1106957
Operable Unit:	01
Material ID:	2096282
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	G
Recovered:	1.00
Oxygenate:	Not reported

Facility ID:	0513591
Facility Type:	ER
Spill Number:	0513591
DER Facility ID:	70117
Site ID:	360092
DEC Region:	2
Closed Date:	2008-10-24
Spill Cause:	Housekeeping
Spill Class:	C4

GETTY #329 (Continued) **S107787668**

SWIS:	0301
Spill Date:	2006-02-24
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2006-02-24
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-02-24
Spill Record Last Update:	2008-10-24
Spiller Name:	MIKE CARR
Spiller Company:	GETTY #329
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	001
Contact Name:	MIKE CARR
DEC Memo:	"Tyree report says: Poor housekeeping associated with a waste oil AST."
Remarks:	"both items are in containmnet area:"

All Materials:

Site ID:	360092
Operable Unit ID:	1117280
Operable Unit:	01
Material ID:	2107777
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	360092
Operable Unit ID:	1117280
Operable Unit:	01
Material ID:	2107778
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Click this hyperlink while viewing on your computer to access
12 additional NY SPILL: record(s) in the EDR Site Report.

R87 **GETTY GAS STATION** **NY Spills** **S113405160**
SSE **1441 WESTCHESTER AVE** **N/A**
< 1/8 **BRONX, NY**
0.121 mi.
640 ft. **Site 6 of 9 in cluster R**

Relative: Higher

Actual: 21 ft.

SPILLS:

Facility ID:	1215811
Facility Type:	ER
Spill Number:	1215811
DER Facility ID:	70117
Site ID:	479143
DEC Region:	2
Closed Date:	2013-03-29
Spill Cause:	Human Error
Spill Class:	C4
SWIS:	0301
Spill Date:	2013-02-23
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2013-02-23
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2013-02-23
Spill Record Last Update:	2013-03-29
Spiller Name:	SANACORE
Spiller Company:	UNKNOWN
Spiller Address:	1441 WESTCHESTER AVE
Spiller Company:	999
Contact Name:	SANACORE
DEC Memo:	"surface spill at a gas station from someone filling a car. FD on site, fuel went down the sewer and was flushed by FD."
Remarks:	"over fill of vehicle - 20 gal. down a sewer - fdny hazmat on scene - clean up in progress"

All Materials:

Site ID:	479143
Operable Unit ID:	1228885
Operable Unit:	01
Material ID:	2226626
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

R88 **GLOBAL MONTELLO GROUP CORP. #5421** **NY AST** **A100168816**
SSE **1441 WESTCHESTER AVENUE** **N/A**
< 1/8 **BRONX, NY 10472**
0.121 mi.
640 ft. **Site 7 of 9 in cluster R**

Relative:
Higher

Actual:
21 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-152897
Program Type:	PBS
UTM X:	594222.32902
UTM Y:	4520329.74943
Expiration Date:	07/24/2020
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	4810
Affiliation Type:	Facility Owner
Company Name:	LEEMILTS PETROLEUM.
Contact Type:	AUTHORIZED REPRESENTATIVE
Contact Name:	MEGAN KAZMIERCZAK
Address1:	2 JERICHO TURNPIKE, WING C, SUITE 110
Address2:	Not reported
City:	JERICHO
State:	NY
Zip Code:	11753
Country Code:	001
Phone:	(516) 478-0540
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2017-07-12

Site Id:	4810
Affiliation Type:	Emergency Contact
Company Name:	LEEMILTS PETROLEUM.
Contact Type:	Not reported
Contact Name:	CALL CENTER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(888) 674-7601
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2013-05-10

Site Id:	4810
Affiliation Type:	Facility Operator
Company Name:	GLOBAL MONTELLO GROUP CORP. #5421
Contact Type:	Not reported
Contact Name:	ERIC HARVEY
Address1:	Not reported
Address2:	Not reported
City:	Not reported

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **A100168816**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 991-9104
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2017-07-12

Site Id:	4810
Affiliation Type:	Mail Contact
Company Name:	ATC ECLIPSE
Contact Type:	Not reported
Contact Name:	MEGAN KAZMIERCZAK
Address1:	705 A LAKEVIEW PLAZA BLVD.
Address2:	Not reported
City:	WORTHINGTON
State:	OH
Zip Code:	43085
Country Code:	001
Phone:	(614) 433-0170
EMail:	MEGAN.KAZMIERCZAK@ATCGS.COM
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2018-09-21

Tank Info:

Tank Number:	004
Tank Id:	19491
Material Code:	0009
Common Name of Substance:	Gasoline

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/1953
Capacity Gallons:	550
Tightness Test Method:	01
Date Test:	10/01/1993
Next Test Date:	Not reported
Date Tank Closed:	06/01/1995
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **A100168816**

Material Name: gasoline

Tank Number: 014
Tank Id: 50992
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:

L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
D00 - Pipe Type - No Piping
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
C00 - Pipe Location - No Piping
J00 - Dispenser - None
I04 - Overfill - Product Level Gauge (A/G)
B05 - Tank External Protection - Jacketed
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 12/01/1993
Capacity Gallons: 180
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: DAFRANCI
Last Modified: 07/13/2017
Material Name: waste oil/used oil

Tank Number: 3
Tank Id: 63975
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring

GLOBAL MONTELLO GROUP CORP. #5421 (Continued) **A100168816**

J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
D10 - Pipe Type - Copper
B05 - Tank External Protection - Jacketed
K01 - Spill Prevention - Catch Basin
I02 - Overfill - High Level Alarm
E00 - Piping Secondary Containment - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	10/01/1998
Capacity Gallons:	240
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DAFRANCI
Last Modified:	07/13/2017
Material Name:	#2 fuel oil (on-site consumption)

R89 **ALLIANCE ENERGY LLC** **NY Spills** **S113405207**
SSE **1441 WESTCHESTER AVE** **N/A**
< 1/8 **BRONX, NY**
0.121 mi.
640 ft. **Site 8 of 9 in cluster R**

Relative: **Higher**
Actual: **21 ft.**

SPILLS:

Facility ID:	1215865
Facility Type:	ER
Spill Number:	1215865
DER Facility ID:	70117
Site ID:	479197
DEC Region:	2
Closed Date:	2013-03-04
Spill Cause:	Human Error
Spill Class:	C4
SWIS:	0301
Spill Date:	2013-02-23
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	2013-02-26
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2013-02-26
Spill Record Last Update:	2013-03-04
Spiller Name:	RICHARD BALDWIN
Spiller Company:	ALLIANCE ENERGY LLC
Spiller Address:	1441 WESTCHESTER AVE

ALLIANCE ENERGY LLC (Continued) **S113405207**

Spiller Company:	999
Contact Name:	RICHARD BALDWIN
DEC Memo:	"Spoke with Richard Baldwin.Spill has been cleaned up by FD.No soil /drain was impacted. A report will be send to DEC. (sr) 03/04/13 Closure report in edocs.(sr)"
Remarks:	"individual drove away w/out removing pump hose, nyc fd c/u"

All Materials:

Site ID:	479197
Operable Unit ID:	1228940
Operable Unit:	01
Material ID:	2226693
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	G
Recovered:	2.00
Oxygenate:	Not reported

I90 **MANHOLE 495** **NY Spills** **S104283150**
SW **WEST FARM RD/ FREEDMAN ST** **N/A**
< 1/8 **BRONX, NY**
0.121 mi.
641 ft. **Site 5 of 6 in cluster I**

Relative: **Higher**

Actual: **49 ft.**

SPILLS:

Facility ID:	9908693
Facility Type:	ER
Spill Number:	9908693
DER Facility ID:	241638
Site ID:	298677
DEC Region:	2
Closed Date:	2002-02-22
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	1999-10-18
Investigator:	COMENALE
Referred To:	Not reported
Reported to Dept:	1999-10-18
CID:	382
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1999-10-18
Spill Record Last Update:	2002-02-22
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported

MANHOLE 495 (Continued) **S104283150**

Spiller Company: 999
Contact Name: STEVEN CRIBBIN
DEC Memo: ""
Remarks: "2 gals of oil found ontop of the transformer. clean up pending lab results. con ed 128-499"

All Materials:
Site ID: 298677
Operable Unit ID: 1082979
Operable Unit: 01
Material ID: 297800
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: 2.00
Units: G
Recovered: .00
Oxygenate: Not reported

S91 **P.S. 811 (OLD I84) - BRONX X084** **NY AST** **U003394062**
WSW **1434 LONGFELLOW AVENUE** **N/A**
< 1/8 **BRONX, NY 10459**
0.123 mi.
648 ft. **Site 1 of 3 in cluster S**

Relative:
Higher

Actual:
50 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-351903
Program Type: PBS
UTM X: 593818.10813
UTM Y: 4520568.19654
Expiration Date: 06/28/2023
Site Type: School

Affiliation Records:
Site Id: 17394
Affiliation Type: Facility Owner
Company Name: NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type: MANAGER, FUEL DIVISION
Contact Name: MUNENDRA SHARMA
Address1: 44-36 VERNON BOULEVARD
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 349-5752
EMail: Not reported
Fax Number: Not reported
Modified By: ACDANIEL
Date Last Modified: 2018-07-17

Site Id: 17394
Affiliation Type: Mail Contact
Company Name: NYC DEPARTMENT OF EDUCATION

P.S. 811 (OLD I84) - BRONX X084 (Continued) **U003394062**

Contact Type:	Not reported
Contact Name:	MUNENDRA SHARMA
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2:	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-17

Site Id:	17394
Affiliation Type:	Facility Operator
Company Name:	P.S. 811 (OLD I84) - BRONX X084
Contact Type:	Not reported
Contact Name:	ALEKCI JUNKOVIC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-3450
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MXLAY
Date Last Modified:	2016-05-25

Site Id:	17394
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	KEN MAHADEO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 210-7918
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-17

Tank Info:

Tank Number:	001
Tank Id:	34087
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

P.S. 811 (OLD I84) - BRONX X084 (Continued) **U003394062**

H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
G02 - Tank Secondary Containment - Vault (w/access)
E00 - Piping Secondary Containment - None
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/29/1972
Capacity Gallons:	15000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	06/11/2018
Material Name:	#2 fuel oil (on-site consumption)

Tank Number:	002
Tank Id:	34088
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

K01 - Spill Prevention - Catch Basin
I02 - Overfill - High Level Alarm
E00 - Piping Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
G02 - Tank Secondary Containment - Vault (w/access)
L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/29/1972
Capacity Gallons:	15000
Tightness Test Method:	NN

P.S. 811 (OLD I84) - BRONX X084 (Continued) **U003394062**

Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	06/11/2018
Material Name:	#2 fuel oil (on-site consumption)
Tank Number:	003
Tank Id:	245637
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

J02 - Dispenser - Suction Dispenser
G06 - Tank Secondary Containment - Remote Impounding Area
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
I05 - Overfill - Vent Whistle
E06 - Piping Secondary Containment - Remote Impounding Area
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	06/12/2011
Capacity Gallons:	4000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	10/12/2012
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)
Tank Number:	004
Tank Id:	250588

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
E00 - Piping Secondary Containment - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

P.S. 811 (OLD I84) - BRONX X084 (Continued) **U003394062**

I05 - Overfill - Vent Whistle
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	05/03/1991
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	06/11/2018
Material Name:	diesel

Tank Number:	005
Tank Id:	250589

Equipment Records:

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
I02 - Overfill - High Level Alarm
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	05/03/1991
Capacity Gallons:	30
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	06/11/2018
Material Name:	diesel

S92 **NYC BD OF ED - PUBLIC SCHOOL 84 BRONX** **RCRA-SQG** **1004759428**
WSW **1434 LONGFELLOW AVE** **NY Spills** **NYR000010553**
< 1/8 **BRONX, NY 10460** **FINDS**
0.123 mi. **ECHO**
648 ft. **Site 2 of 3 in cluster S** **NY MANIFEST**

Relative:
Higher

Actual:
50 ft.

RCRA-SQG:

Date form received by agency:	10/21/2014
Facility name:	NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Facility address:	1434 LONGFELLOW AVE BRONX, NY 10460
EPA ID:	NYR000010553
Mailing address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact:	ALEXANDER LEMPERT
Contact address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	718-472-8501
Contact email:	ALEMPERT@NYCSCA.ORG
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NYC BOARD OF EDUCATION
Owner/operator address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	718-472-8501
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	01/26/1972
Owner/Op end date:	Not reported

Owner/operator name:	NYC BOARD OF EDUCATION
Owner/operator address:	28-11 QUEENS PLZ N LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	718-349-5600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NYC BOARD OF EDUCATION
Owner/operator address:	28-11 QUEENS PLZ N LONG ISLAND CITY, NY 11101
Owner/operator country:	US

NYC BD OF ED - PUBLIC SCHOOL 84 BRONX (Continued) **1004759428**

Owner/operator telephone: 718-349-5600
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYC BOARD OF EDUCATION
Owner/operator address: THOMSON AVE
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: 718-472-8501
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 01/26/1972
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: B004
. Waste name: B004

. Waste code: B007
. Waste name: B007

Historical Generators:
Date form received by agency: 01/01/2007
Site name: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Site name: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Classification: Not a generator, verified

Date form received by agency: 08/08/1995
Site name: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX

NYC BD OF ED - PUBLIC SCHOOL 84 BRONX (Continued) **1004759428**

Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

SPILLS:

Facility ID:	1103358
Facility Type:	ER
Spill Number:	1103358
DER Facility ID:	405468
Site ID:	450919
DEC Region:	2
Closed Date:	2011-09-19
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2011-06-24
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2011-06-24
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-06-24
Spill Record Last Update:	2011-09-19
Spiller Name:	Not reported
Spiller Company:	PS 84
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	AXEL SCHWENDT
DEC Memo:	"School is upgrading the elevator. Contractor pulled the piston and discovered some hydraulic oil in the 24ft piston hole in bedrock. Hole was bailed out and now they are planning what additional work is needed. Bore hole was pumped of water and oil. Recharge rate was observed to be very little over the course of a few days. Bore hole pumped again though minimal water and no product. Bore will be overdrilled to accomodate larger piston for larger elevator. Spill can be closed after submission of work to date, disposal for additional cuttings. 9/8/2011- AKRF was on site to conduct screening of the soil during the over-drilling of the piston hole. No staining or odors were noted during the drilling activities. All soil was containerized into 55-gallon drums, analyzed for waste characterization, and shipped off-site for disposal. Based on nature of spill and work to date, this spill is closed."
Remarks:	"elevator piston pulled out of ground - found leaking - cleanup in progress"

NYC BD OF ED - PUBLIC SCHOOL 84 BRONX (Continued) **1004759428**

All Materials:

Site ID:	450919
Operable Unit ID:	1201119
Operable Unit:	01
Material ID:	2197618
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

FINDS:

Registry ID: 110004516836

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004759428
Registry ID:	110004516836
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004516836

NY MANIFEST:

Country:	USA
EPA ID:	NYR000010553
Facility Status:	Not reported
Location Address 1:	1434 LONGFELLOW AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000010553
Mailing Name:	NYC BOARD OF EDUCATION
Mailing Contact:	JACK BRUCCULERI
Mailing Address 1:	28-11 QUEENS PLAZA NORTH
Mailing Address 2:	Not reported
Mailing City:	LONG ISLAND CITY

NYC BD OF ED - PUBLIC SCHOOL 84 BRONX (Continued) **1004759428**

Mailing State:	NY
Mailing Zip:	11101
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7183616094

NY MANIFEST:

Document ID:	NJA2182104
Manifest Status:	K
seq:	Not reported
Year:	1995
Trans1 State ID:	50082
Trans2 State ID:	S6993
Generator Ship Date:	08/12/1995
Trans1 Recv Date:	08/12/1995
Trans2 Recv Date:	10/12/1995
TSD Site Recv Date:	10/12/1995
Part A Recv Date:	/ /
Part B Recv Date:	10/24/1995
Generator EPA ID:	NYR000010553
Trans1 EPA ID:	NY0000551218
Trans2 EPA ID:	NJD980772768
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00100
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

T93 **MACHADO SERVICE STATION INC** **EDR Hist Auto** **1022251409**
South **1189 BRONX RIVER AV** **N/A**
< 1/8 **BRONX, NY 10472**
0.123 mi.
651 ft. **Site 1 of 9 in cluster T**

Relative: EDR Hist Auto
Higher

Actual: Year: Name: Type:
20 ft. 1969 MACHADO SERVICE STATION INC Gasoline Service Stations
1970 MACHADO SERVICE STATION INC Gasoline Service Stations
1971 MACHADO SERVICE STATION INC Gasoline Service Stations
1972 MACHADO SERVICE STATION INC Gasoline Service Stations

M94 **DRUM RUN - PARKING LANE** **NY Spills** **S106970749**
East **1321 BRONX RIVER AVE** **N/A**
< 1/8 **BRONX, NY**
0.123 mi.
651 ft. **Site 2 of 2 in cluster M**

Relative: SPILLS:
Higher

Actual:
32 ft.

Facility ID:	0505211
Facility Type:	ER
Spill Number:	0505211
DER Facility ID:	296708
Site ID:	350267
DEC Region:	2
Closed Date:	2005-09-29
Spill Cause:	Abandoned Drums
Spill Class:	C4
SWIS:	0301
Spill Date:	2005-07-29
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	2005-07-29
CID:	444
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2005-08-01
Spill Record Last Update:	2005-09-29
Spiller Name:	CHRIS HOSS
Spiller Company:	PARKING LANE
Spiller Address:	1321 BRONX RIVER AVE
Spiller Company:	001
Contact Name:	CHRIS HOSS
DEC Memo:	"Drum Run 09.29.05 SR// It was cleared on 09.27.05 Drum Run."
Remarks:	"1 DRUM: APPEARS NOT TO BE LEAKING"

All Materials:

Site ID:	350267
Operable Unit ID:	1107844
Operable Unit:	01
Material ID:	2097732

DRUM RUN - PARKING LANE (Continued) **S106970749**

Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

T95 **GETTY SERVICE STATION** **RCRA NonGen / NLR** **1000872182**
South **1185 BRONX RIVER AVE** **US AIRS** **NYD987002003**
< 1/8 **BRONX, NY 10472** **FINDS**
0.124 mi. **ECHO**
655 ft. **Site 2 of 9 in cluster T** **NY MANIFEST**

Relative:
Higher

Actual:
20 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	GETTY PETROLEUM CORP
Facility address:	1185 BRONX RIVER AVE BRONX, NY 10472-3101
EPA ID:	NYD987002003
Mailing address:	JERICHO TNPK JERICHO, NY 11735
Contact:	Not reported
Contact address:	JERICHO TNPK JERICHO, NY 11735
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	GETTY PETROLEUM CORP
Owner/operator address:	125 JERICHO TNPK JERICHO, NY 11735
Owner/operator country:	US
Owner/operator telephone:	516-338-6000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	GETTY PETROLEUM CORP
Owner/operator address:	125 JERICHO TNPK JERICHO, NY 11735
Owner/operator country:	US
Owner/operator telephone:	516-338-6000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private

GETTY SERVICE STATION (Continued) **1000872182**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: GETTY PETROLEUM CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: GETTY PETROLEUM CORP
Classification: Not a generator, verified

Date form received by agency: 01/31/1994
Site name: GETTY PETROLEUM CORP
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE

GETTY SERVICE STATION (Continued) **1000872182**

OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

US AIRS MINOR:
Envid: 1000872182
Region Code: 02
Programmatic ID: AIR NY0000002600700174
Facility Registry ID: 110009481845
D and B Number: Not reported
Primary SIC Code: 5541
NAICS Code: 999999
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR NY0000002600700174
Facility Registry ID: 110009481845
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-03-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

US AIRS MINOR:
Envid: 1000872182
Region Code: 02
Programmatic ID: AIR NY0000002600700174
Facility Registry ID: 110009481845
D and B Number: Not reported
Primary SIC Code: 5541
NAICS Code: 999999
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR NY0000002600700174
Facility Registry ID: 110009481845
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-03-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

GETTY SERVICE STATION (Continued) **1000872182**

FINDS:

Registry ID: 110009481845

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

AIR MINOR

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000872182
Registry ID: 110009481845
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110009481845

NY MANIFEST:

Country: USA

GETTY SERVICE STATION (Continued) **1000872182**

EPA ID:	NYD987002003
Facility Status:	Not reported
Location Address 1:	1185 BRONX RIVERRD
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD987002003
Mailing Name:	GETTY PETROLEUM
Mailing Contact:	JOSEPH CAPORICCI
Mailing Address 1:	1185 BRONX RIVER
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10472
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	5164882500

NY MANIFEST:

Document ID:	CTF0209355
Manifest Status:	C
seq:	Not reported
Year:	1994
Trans1 State ID:	XG2539
Trans2 State ID:	Not reported
Generator Ship Date:	02/22/1994
Trans1 Recv Date:	02/22/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	02/24/1994
Part A Recv Date:	/ /
Part B Recv Date:	03/09/1994
Generator EPA ID:	NYD987002003
Trans1 EPA ID:	NYD173735192
Trans2 EPA ID:	Not reported
TSDF ID 1:	CTD000604488
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported

GETTY SERVICE STATION (Continued) **1000872182**

Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

T96 **BUSINESS SERVICE STATION** **NY Spills** **S121462961**
South **1185 BRONX RIVER AVE** **N/A**
< 1/8 **BRONX, NY 10462**
0.124 mi.
655 ft. **Site 3 of 9 in cluster T**

Relative: **Higher**
Actual: **20 ft.**

SPILLS:

Facility ID:	1708566
Facility Type:	ER
Spill Number:	1708566
DER Facility ID:	518506
Site ID:	564977
DEC Region:	2
Closed Date:	2018-02-05
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2017-12-12
Investigator:	PXLAKHAN
Referred To:	Not reported
Reported to Dept:	2017-12-12
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2017-12-12
Spill Record Last Update:	2018-02-05
Spiller Name:	TIM FISHER
Spiller Company:	UNKNOWN
Spiller Address:	1185 BRONX RIVER AVE
Spiller Company:	999
Contact Name:	TIM FISHER
DEC Memo:	"12/12/17-Zhune spoke to Tim Fisher 914-495-9935. Tim said the owner of the property is Getty Realty. The tenant Global is removing the underground tanks, product tanks and the dispensers. The tenant is no longer operating the property. They are not going to install new tanks. During the process of removing the tanks contaminated soil was identified. They excavated soil contaminated. they are in the process

BUSINESS SERVICE STATION (Continued) **S121462961**

to collect end-point samples. Once they receive the soil analytical results they will make the decision of what the new step will be. 12/13/17-A CSL letter was sent to: Mr. Brad Fisher Director Environmental Getty Realty Corp. Two Jericho Plaza Wing C Suite 110 Jericho, NY 11753 12/15/17 - Lakhani As per his email, Antea Group Tim Fisher informed that all three (3) USTs were removed from the ground today. Sidewall soil samples on the northern, eastern, and western sidewalls of the tank pit did not exhibit evidence of petroleum impacts as there was no staining and the PIDS were less than 0.5 ppm. The southern sidewall did exhibit evidence of impacted soil as there was stained soil at approx. 7'-8'bgs that exhibited PID readings of 390 ppm and 1000 ppm. A concrete slab was present across the bottom of the tank pit, the slab is approx. 1' thick and is present from 15'-16'bgs. A portion of the slab was removed to allow for samples to be collected below the USTs today, those PIDs ranged from 300-1500 ppm. Pea gravel surrounded the USTs and did not exhibit evidence of petroleum impacts. The remainder of the concrete bottom slab was removed on 12/13/17 and stained soil will be over excavated. Endpoints samples will be collected to document endpoint excavation conditions. At this time soil samples have not yet been collected below the product dispensers. Antea does plan to over-excavate the southern wall of the tank pit for remedial purposes to remove impacted soil that had exhibited the PIDs of 390 ppm and 1000 ppm. 12/18/17 - Lakhani Antea Tim called to inform that as of 12/15/17, Antea over-excavated the footprint of the tank field down to bedrock, which was present a depths varying from approx. 16'-19'bgs. We collected two 2) excavation endpoint samples for the purpose of documenting the soil that was present immediately above the bedrock. It has been noted that while one (1) of these samples exhibited a PID reading of 2,613 ppm, additional excavation was not possible due to bedrock. Antea is currently on-site performing over-excavation of the southern sidewall of the tank field. The sidewall is being excavated further to the south. Once Antea reaches clean southern sidewall samples, Antea will proceed with backfilling. Bottom soil samples were collected at the gasoline dispensers. 01/02/18 - Lakhani Antea Tim called to inform that the excavation expansion was completed and endpoint samples were collected. The excavation was backfilled and Antea received the endpoint sample results. Results have yet to be submitted to DEC. 02/05/18 - Lakhani Spill Closure Request (Antea, 02/01/18) - Visual and PID evidence of petroleum impacts were observed during the removal of the USTs and related piping dispensers. The entire bottom of the tank field was over excavated to bedrock at depths ranging from 17.5'-18'bgs. The remedial excavation was also completed lateral from the tank field south and encompassed the footprint of the dispensers. This area of the excavation was also completed to bedrock at depths ranging from 18'-19'bgs. Soil samples were collected at the excavation extents. All bottom samples collected as part of the UST closure activities were over excavated. This area was over excavated to bedrock, but soil samples were collected immediately above bedrock to document soil conditions. A total of eleven (11) sidewall samples document the remedial excavation limits. Four (4) bottom samples were collected immediately above bedrock. Groundwater was not encountered. Most soil samples do not show any VOC or SVOC exceedances. EX-B1, EX-B2, and EX S-1 had some VOC exceedances. However, these sample points were collected on bedrock and scraped off. Since excavation was completed to bedrock and the remaining sidewall soil samples showed no VOC/SVOC

BUSINESS SERVICE STATION (Continued) **S121462961**

exceedances, the spill has been appropriately remediated. Spill is closed."

Remarks: "historical spill clean up pending underground storage tanks removed"

All Materials:

Site ID:	564977
Operable Unit ID:	1312916
Operable Unit:	01
Material ID:	2320286
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

T97 **MATEO MANUEL** **EDR Hist Auto** **1021018118**
South **1185 BRONX RIVER AVE** **N/A**
< 1/8 **BRONX, NY 10472**
0.124 mi.
655 ft. **Site 4 of 9 in cluster T**

Relative: EDR Hist Auto
Higher

Actual:
20 ft.

Year:	Name:	Type:
2000	1185 RIVER CORP	Gasoline Service Stations
2000	MATEO MANUEL	General Automotive Repair Shops
2001	MATEO MANUEL	General Automotive Repair Shops
2001	1185 RIVER CORP	Gasoline Service Stations
2002	1185 RIVER CORP	Gasoline Service Stations
2002	MATEO MANUEL	General Automotive Repair Shops
2003	MATEO MANUEL	General Automotive Repair Shops
2003	POMPY REPAIR SHOP	General Automotive Repair Shops
2003	1185 RIVER CORP	Gasoline Service Stations
2004	POMPY REPAIR SHOP	General Automotive Repair Shops
2004	MATEO MANUEL	General Automotive Repair Shops
2004	1185 RIVER CORP	Gasoline Service Stations
2005	POMPY REPAIR SHOP	General Automotive Repair Shops
2005	1185 RIVER CORP	Gasoline Service Stations
2005	MATEO MANUEL	General Automotive Repair Shops
2006	1185 RIVER CORP	Gasoline Service Stations
2006	POMPY REPAIR SHOP	General Automotive Repair Shops
2006	MATEO MANUEL	General Automotive Repair Shops
2007	MATEO MANUEL	General Automotive Repair Shops
2007	1185 RIVER CORP	Gasoline Service Stations
2007	POMPY REPAIR SHOP	General Automotive Repair Shops
2008	MI SUENO AUTO INC	General Automotive Repair Shops
2008	POMPY REPAIR SHOP	General Automotive Repair Shops
2008	1185 RIVER CORP	Gasoline Service Stations
2008	MATEO MANUEL	General Automotive Repair Shops
2009	1185 RIVER CORP	Gasoline Service Stations
2009	POMPY REPAIR SHOP	General Automotive Repair Shops
2009	MATEO MANUEL	General Automotive Repair Shops
2009	MI SUENO AUTO INC	General Automotive Repair Shops
2010	MATEO MANUEL	General Automotive Repair Shops

MATEO MANUEL (Continued) **1021018118**

2010	1185 RIVER CORP	Gasoline Service Stations
2010	POMPY REPAIR SHOP	General Automotive Repair Shops
2010	MI SUENO AUTO INC	General Automotive Repair Shops
2011	POMPY REPAIR SHOP	General Automotive Repair Shops
2011	MATEO MANUEL	General Automotive Repair Shops
2011	MI SUENO AUTO INC	General Automotive Repair Shops
2011	JUSTINS GARAGE INC	General Automotive Repair Shops
2012	MATEO MANUEL	General Automotive Repair Shops
2013	RIO BRONX AUTO SERVICE CTR INC	General Automotive Repair Shops
2013	MATEO MANUEL	General Automotive Repair Shops
2014	MATEO MANUEL	General Automotive Repair Shops
2014	RIO BRONX AUTO SERVICE CTR INC	General Automotive Repair Shops

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T98 **GETTY # 268** **NY Spills** **S109583012**
South **1185 BRONXRIVER AVE** **N/A**
< 1/8 **BRONX, NY**
0.124 mi.
655 ft. **Site 5 of 9 in cluster T**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	0902005
Facility Type:	ER
Spill Number:	0902005
DER Facility ID:	363135
Site ID:	414034
DEC Region:	2
Closed Date:	2009-05-26
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2009-05-19
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2009-05-19
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-05-19
Spill Record Last Update:	2009-05-26
Spiller Name:	CARRIE WILSEY
Spiller Company:	GETTY # 268
Spiller Address:	1185 BRONXRIVER AVE
Spiller Company:	999
Contact Name:	CARRIE WILSEY
DEC Memo:	"minor spill - confined within the building."
Remarks:	"DUE TO POOR HOUSEKEEPING HALF A GALLON OF ANTIFREEZE AND WASTE OIL WAS FOUND ON THE CONCRETE BAY FLOOR. CLEAN UP WAS DONE."

All Materials:

Site ID:	414034
Operable Unit ID:	1170427

GETTY # 268 (Continued) **S109583012**

Operable Unit:	01
Material ID:	2162157
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	.50
Units:	G
Recovered:	.50
Oxygenate:	Not reported
Site ID:	414034
Operable Unit ID:	1170427
Operable Unit:	01
Material ID:	2162158
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

T99 **GETTY SERVICE STATION #26** **NY LTANKS S100494277**
South **1185 BRONX RIVER AVE** **NY Spills N/A**
< 1/8 **BRONX, NY**
0.124 mi.
655 ft. **Site 6 of 9 in cluster T**

Relative: LTANKS:
Higher

Facility ID:	0512577
Site ID:	358914
Closed Date:	2006-05-11
Spill Number:	0512577
Spill Date:	2006-01-30
Spill Cause:	Tank Overfill
Spill Source:	Passenger Vehicle
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2006-01-30
CID:	409
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2006-01-30
Spill Record Last Update:	2006-05-11
Spiller Name:	MIKE CARR
Spiller Company:	GETTY# 268
Spiller Address:	1185 BRONX RIVER AVE

Actual:
20 ft.

GETTY SERVICE STATION #26 (Continued) **S100494277**

Spiller County:	001
Spiller Contact:	MIKE CARR
Spiller Phone:	(518) 369-7822
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	201809
DEC Memo:	"Closure document from Tyree attached Closed"
Remarks:	"1 CUP THAT HAS BEEN CLEANED UP. SPEEDY DRY PLACED ON SPILL."

All Materials:

Site ID:	358914
Operable Unit ID:	1116140
Operable Unit:	01
Material ID:	2106284
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	1.00
Oxygenate:	Not reported

Facility ID:	9209035
Site ID:	211852
Closed Date:	2007-05-04
Spill Number:	9209035
Spill Date:	1992-11-04
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	WXSUN
Referred To:	Not reported
Reported to Dept:	1992-11-04
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1992-11-05
Spill Record Last Update:	2007-05-04
Spiller Name:	Not reported
Spiller Company:	GETTY
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	201809
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 3/13/03 REASSIGNED FROM ROMMEL TO VOUGHT. 08/31/2005 - Feng -

GETTY SERVICE STATION #26 (Continued) **S100494277**

Project transferred from Vought to Feng. 10/19/2005 - Feng - File reviewed by Feng: Tank Closure Report, by Tyree, 11/1993. During 8/1993, ten (10) 550-gallon gasoline USTs were excavated and removed by Main Elmsford Company. Soil samples were collected. Environmental Site Investigation Report, by Tyree, 12/1993. During 10/1993, Tyree installed four (4) monitoring wells. no groundwater encountered. Levels of aromatic hydrocarbons detected in split spoon soil samples collected during drilling, exceeded NYSDEC Soil Guidance Values. Vapor Extraction Influence Pilot Test Report, by Tyree, 1/1995. During 1/1995, Tyree performed a Vapor Extraction Influence Pilot Test. Based upon findings of the vapor extraction influence pilot test a ROI of 15' can be achieved if a flow rate of 122 CFM at 20 of water is supplied to vapor extraction wells VW-1, VW-4, VW-5 and VW-7. Remedial Action Plan, by Tyree, 2/1995. Outlines design and construction details of the SVES to remediate soil contamination detected during removal of the former gasoline UST. SVES installed by Tyree, 4/1995. the SVES consists of six (6) 4-inch diameter vapor extraction wells which are individually manifolded to 2 diameter Schedule 40 PVC headers. The PVC headers are extended to a 12' squared concrete pad. The PV headers were then manifolded to a skid mounted SVE skid. The SVE skid consists of a Roots 5 hp positive displacement blower and is equiped with pressure and temperature switches, a vapor drop tank (coalescer) with high water level switch, and an integrated control panel. The SVE skid was started during 3/1996. Monitoring and gauging monthly on Vapor extraction wells VW-1 through VW-5, and VW-7 from the top of the well casings using a product/water interface probe. The SVES was inspected, monthly, during the 12/1998 through 2/1999 monitoring quarter. Semi Anuual Monitoring Report, by Tyree, 7/2003-12/2003. 6 monitoring wells on site, only 2 were sampled, the others wells were dry. groundwater flow southerly. Analyticals show 255.7ppb BTEX and MTBE below MDL in VW-1 (20.21' bg), 6409.9ppb BTEX and MTBE below MDL in VW-4 (19.05' bg). Semi Anuual Monitoring Report, by Tyree, 1/2004-6/2004. 6 monitoring wells on site, only 1 were sampled, the others wells were dry. groundwater flow southerly. Analyticals show 4676.6ppb BTEX and MTBE below MDL in VW-4 (18.5' bg). Semi Anuual Monitoring Report, by Tyree, 7/2004-12/2004. 6 monitoring wells on site, only 1 were sampled, the others wells were dry. groundwater flow southerly. Analyticals show 1408.5ppb BTEX and MTBE below MDL in VW-4 (18.64' bg). 05/04/07-Sun:Based on the Subsurface Investigation Report, dated November 2006 ,all of the groundwater samples collected from the sampling event were non detect, indicating that the groundwater has not been impacted from this spill.No free product was detected in any monitoring wells. Based on 1/2/07 data, BTEX ranged from non-detect to 2.53 ppb, and MTBE ranged from non-detect to 42 ppb.Based on these low concentrations of BTEX and MTBE and continued downward trend in concentrations of BTEX and MTBE and Sensitive Receptor Survey conducted for this site, the spill is closed and NFA letter will be issued. (Sun) "

Remarks: "4 @ 550 GALS WILL REPAIR IN MORNING"

All TTF:

Facility ID: 9209035
Spill Number: 9209035
Spill Tank Test: 1540807
Site ID: 211852
Tank Number: Not reported
Tank Size: 0

GETTY SERVICE STATION #26 (Continued) **S100494277**

Material:	0009
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	211852
Operable Unit ID:	975788
Operable Unit:	01
Material ID:	406103
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Facility ID:	0700963
Facility Type:	ER
Spill Number:	0700963
DER Facility ID:	201809
Site ID:	380356
DEC Region:	2
Closed Date:	2007-04-25
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2007-04-24
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2007-04-24
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2007-04-24
Spill Record Last Update:	2007-04-25
Spiller Name:	MIKE CARR
Spiller Company:	GETTY#268

GETTY SERVICE STATION #26 (Continued) **S100494277**

Spiller Address:	1185 BRONX RIVER AVE
Spiller Company:	001
Contact Name:	MIKE CARR
DEC Memo:	"minor spill - all cleaned up"
Remarks:	"LESS THEN 1 PINT AND IS ALL CLEANED UP"

All Materials:

Site ID:	380356
Operable Unit ID:	1137836
Operable Unit:	01
Material ID:	2127794
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0713291
Facility Type:	ER
Spill Number:	0713291
DER Facility ID:	201809
Site ID:	395017
DEC Region:	2
Closed Date:	2008-03-17
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-03-17
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-03-17
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-03-17
Spill Record Last Update:	2008-03-17
Spiller Name:	MIKE CARR\\
Spiller Company:	GETTY#268
Spiller Address:	1185 BRONX RIVER AVE
Spiller Company:	001
Contact Name:	MIKE CARR\\
DEC Memo:	"minor spill - all cleaned"
Remarks:	"less then 1 gallon and all cleaned up"

All Materials:

Site ID:	395017
Operable Unit ID:	1151964

GETTY SERVICE STATION #26 (Continued) **S100494277**

Operable Unit:	01
Material ID:	2142734
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0809157
Facility Type:	ER
Spill Number:	0809157
DER Facility ID:	201809
Site ID:	406599
DEC Region:	2
Closed Date:	2008-11-18
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-11-13
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-11-13
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2008-11-13
Spill Record Last Update:	2008-11-18
Spiller Name:	MIKE CARR
Spiller Company:	GETTY
Spiller Address:	1185 BRONX RIVER AVE
Spiller Company:	999
Contact Name:	MIKE CARR
DEC Memo:	"minor spill closed"
Remarks:	"Caller states a small amount of less than 1 gallon was in a spill box. Clean up was done."

All Materials:

Site ID:	406599
Operable Unit ID:	1163180
Operable Unit:	01
Material ID:	2154489
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported

GETTY SERVICE STATION #26 (Continued) **S100494277**

Recovered:	Not reported
Oxygenate:	Not reported
Facility ID:	0810541
Facility Type:	ER
Spill Number:	0810541
DER Facility ID:	201809
Site ID:	408067
DEC Region:	2
Closed Date:	2009-02-13
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-12-18
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-12-18
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2008-12-18
Spill Record Last Update:	2009-02-13
Spiller Name:	CARRIE WILSEY
Spiller Company:	GETTY 268
Spiller Address:	1185 BRONX RIVER AVE
Spiller Company:	999
Contact Name:	CARRIE WILSEY
DEC Memo:	"Tyree report says: Gasoline was found in regular fill and waste oil was found in overfill bucket of AST. Operator cleaned both."
Remarks:	"CALLER STATES THAT DUE TO POOR HOUSE KEEPING LESS THAN A GALLON WAS SPILLED TO A FILL BUCKET, CLEAN UP WAS DONE."

All Materials:

Site ID:	408067
Operable Unit ID:	1164594
Operable Unit:	01
Material ID:	2155976
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.99
Units:	G
Recovered:	.99
Oxygenate:	Not reported
Facility ID:	0313483
Facility Type:	ER
Spill Number:	0313483

GETTY SERVICE STATION #26 (Continued) **S100494277**

DER Facility ID:	201809
Site ID:	245752
DEC Region:	2
Closed Date:	2004-08-31
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2004-03-09
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2004-03-09
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-03-09
Spill Record Last Update:	2004-08-31
Spiller Name:	MIKE CARR
Spiller Company:	GETTY SERVICE STATION #26
Spiller Address:	1185 BRONX RIVER AVE
Spiller Company:	001
Contact Name:	MIKE CARR
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT minor spill - no letter sent See also 9209035. Rommel"
Remarks:	"DISCOVERED SOME WASTE OIL STAINING AND IS ALL CLEANED UP: IT WAS LESS THAN 1 GALLON: "

All Materials:

Site ID:	245752
Operable Unit ID:	880667
Operable Unit:	01
Material ID:	498632
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0504618
Facility Type:	ER
Spill Number:	0504618
DER Facility ID:	201809
Site ID:	349491
DEC Region:	2
Closed Date:	2005-07-19
Spill Cause:	Housekeeping
Spill Class:	C3
SWIS:	0301

GETTY SERVICE STATION #26 (Continued) **S100494277**

Spill Date:	2005-07-18
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2005-07-18
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2005-07-18
Spill Record Last Update:	2005-07-19
Spiller Name:	CAILYN DINAN
Spiller Company:	GETTY #268
Spiller Address:	1185 BRONX RIVER AVE
Spiller Company:	001
Contact Name:	CAILYN DINAN
DEC Memo:	"7/19/05-Vought-Called Cailyn Dinan and left message to return call. Vought received message from Cailyn that spill was on concrete, no sewers or drains were affected and spill was cleaned using adsorbent material. Spill closed by Vought."
Remarks:	"BEEN CLEANED UP 1/2 GALLON"

All Materials:

Site ID:	349491
Operable Unit ID:	1107091
Operable Unit:	01
Material ID:	2096987
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0513696
Facility Type:	ER
Spill Number:	0513696
DER Facility ID:	201809
Site ID:	360213
DEC Region:	2
Closed Date:	2006-02-28
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2006-02-27
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	2006-02-27
CID:	409
Water Affected:	Not reported

GETTY SERVICE STATION #26 (Continued) **S100494277**

Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	2006-02-27
Spill Record Last Update:	2006-02-28
Spiller Name:	GEORGE FIGUEROE
Spiller Company:	GETTY 268
Spiller Address:	1185 BRONX RIVER AVE
Spiller Company:	001
Contact Name:	GEORGE FIGUEROE
DEC Memo:	"minor spill."
Remarks:	"IS SITTING IN THE CONTAINEMNT. BE CLEANED UP."

All Materials:

Site ID:	360213
Operable Unit ID:	1117397
Operable Unit:	01
Material ID:	2107908
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0515004
Facility Type:	ER
Spill Number:	0515004
DER Facility ID:	201809
Site ID:	361863
DEC Region:	2
Closed Date:	2006-09-27
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2006-03-31
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2006-03-31
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-03-31

GETTY SERVICE STATION #26 (Continued) **S100494277**

Spill Record Last Update:	2006-09-27
Spiller Name:	MIKE CARR
Spiller Company:	GETTY #268
Spiller Address:	1185 BRONX RIVER AVE
Spiller Company:	001
Contact Name:	MIKE CARR
DEC Memo:	"2 minor spills on the same day. Less than 1 gal of waste oil spilled while transferring into the waste oil tank. under 1 gal gasoline spilled while filling USTs. Both spilled to concrete - All cleaned immediately"
Remarks:	"LESS THEN 1 GALLON AND IS CLEANED UP"

All Materials:

Site ID:	361863
Operable Unit ID:	1119977
Operable Unit:	01
Material ID:	2109447
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Site ID:	361863
Operable Unit ID:	1119977
Operable Unit:	01
Material ID:	2109448
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0600785
Facility Type:	ER
Spill Number:	0600785
DER Facility ID:	201809
Site ID:	362869
DEC Region:	2
Closed Date:	2006-11-03
Spill Cause:	Housekeeping
Spill Class:	D4
SWIS:	0301
Spill Date:	2006-04-20
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2006-04-20
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other

GETTY SERVICE STATION #26 (Continued) **S100494277**

Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-04-20
Spill Record Last Update:	2006-11-03
Spiller Name:	MIKE CARR
Spiller Company:	GETTY #268
Spiller Address:	1185 BRONX RIVER AVE
Spiller Company:	001
Contact Name:	MIKE CARR
DEC Memo:	"antifreeze leak from customers car. cleaned immediately"
Remarks:	"LESS THEN 1 QUART- SPEEDI DRI APPLIED"

All Materials:

Site ID:	362869
Operable Unit ID:	1120946
Operable Unit:	01
Material ID:	2110429
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0604641
Facility Type:	ER
Spill Number:	0604641
DER Facility ID:	201809
Site ID:	367653
DEC Region:	2
Closed Date:	2006-09-27
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	0301
Spill Date:	2006-07-25
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2006-07-25
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-07-25
Spill Record Last Update:	2006-09-27
Spiller Name:	MIKE CARR

GETTY SERVICE STATION #26 (Continued) **S100494277**

Spiller Company: GETTY #268
Spiller Address: 1185 BRONX RIVER AVE
Spiller Company: 001
Contact Name: MIKE CARR
DEC Memo: "Staining throughout the station No cleanup conducted."
Remarks: "STAINING AND CLEANED UP"

All Materials:
Site ID: 367653
Operable Unit ID: 1125558
Operable Unit: 01
Material ID: 2115079
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

Facility ID: 0601534
Facility Type: ER
Spill Number: 0601534
DER Facility ID: 201809
Site ID: 363794
DEC Region: 2
Closed Date: 2006-11-03
Spill Cause: Housekeeping
Spill Class: C4
SWIS: 0301
Spill Date: 2006-05-10
Investigator: SMSANGES
Referred To: Not reported
Reported to Dept: 2006-05-10
CID: 409
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2006-05-10
Spill Record Last Update: 2006-11-03
Spiller Name: MIKE CARR
Spiller Company: GETTY 268
Spiller Address: 1185 BRONX RIVER AVE
Spiller Company: 001
Contact Name: MIKE CARR
DEC Memo: "staining throughout station on cement"
Remarks: "BOTH LESS THAN A GAL AND HAVE BEEN CLEANED UP."

All Materials:
Site ID: 363794

GETTY SERVICE STATION #26 (Continued) **S100494277**

Operable Unit ID:	1121850
Operable Unit:	01
Material ID:	2111332
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	1.00
Oxygenate:	Not reported

Site ID:	363794
Operable Unit ID:	1121850
Operable Unit:	01
Material ID:	2111331
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	1.00
Oxygenate:	Not reported

Click this hyperlink while viewing on your computer to access
5 additional NY SPILL: record(s) in the EDR Site Report.

T100 **GLOBAL MONTELLO GROUP CORP. #5415** **NY UST U004107507**
South **1185 BRONX RIVER AVENUE** **NY AST N/A**
< 1/8 **BRONX, NY 10465**
0.124 mi.
655 ft. **Site 7 of 9 in cluster T**

Relative: **Higher**
Actual: **20 ft.**

UST:

Id/Status:	2-153524 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	594137.59454
UTM Y:	4520224.56367
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	4866
Affiliation Type:	Facility Owner
Company Name:	LEEMILTS PETROLEUM
Contact Type:	AUTHORIZED REPRESENTATIVE
Contact Name:	MEGAN KAZMIERCZAK
Address1:	2 JERICHO PLAZA, WING C, SUITE 110
Address2:	Not reported
City:	JERICHO
State:	NY
Zip Code:	11753
Country Code:	001
Phone:	(516) 478-5400

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2017-07-26

Site Id: 4866
Affiliation Type: Emergency Contact
Company Name: LEEMILTS PETROLEUM
Contact Type: Not reported
Contact Name: CALL CENTER
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (888) 674-7601
EMail: Not reported
Fax Number: Not reported
Modified By: MFLEONAR
Date Last Modified: 2017-10-30

Site Id: 4866
Affiliation Type: Facility Operator
Company Name: GLOBAL MONTELLO GROUP CORP. #5415
Contact Type: Not reported
Contact Name: ERIC HARVEY
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 289-4663
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2017-07-26

Site Id: 4866
Affiliation Type: Mail Contact
Company Name: GETTY REALTY CORP.
Contact Type: Not reported
Contact Name: JOHN DEMONTE
Address1: 2 JERICHO PLAZA
Address2: WING C, SUITE 110
City: JERICHO
State: NY
Zip Code: 11753
Country Code: 001
Phone: (516) 478-5468
EMail: JDEMONTE@GETTYREALTY.COM
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2018-01-30

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

Tank Info:

Tank Number:	001
Tank ID:	46504
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	06/01/1993
Date Tank Closed:	12/12/2017
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	05/03/2013
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DAFRANCI
Last Modified:	01/30/2018

Equipment Records:

L07 - Piping Leak Detection - Pressurized Piping Leak Detector
E04 - Piping Secondary Containment - Double walled UG
J01 - Dispenser - Pressurized Dispenser
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	002
Tank ID:	46505
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	06/01/1993
Date Tank Closed:	12/12/2017
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	05/03/2013
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DAFRANCI
Last Modified:	01/30/2018

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

Equipment Records:

L07 - Piping Leak Detection - Pressurized Piping Leak Detector
C02 - Pipe Location - Underground/On-ground
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
E04 - Piping Secondary Containment - Double walled UG
J01 - Dispenser - Pressurized Dispenser
F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring

Tank Number:	003
Tank ID:	46506
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	06/01/1993
Date Tank Closed:	12/12/2017
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	05/03/2013
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DAFRANCI
Last Modified:	01/30/2018

Equipment Records:

L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
J01 - Dispenser - Pressurized Dispenser
E04 - Piping Secondary Containment - Double walled UG
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None

Tank Number:	004-A
Tank ID:	57617
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None

Tank Number: 005
Tank ID: 8138
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

Tank Number:	006
Tank ID:	8139
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	05/01/1946
Date Tank Closed:	06/01/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	11/01/1992
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number:	007
Tank ID:	8140
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	05/01/1946
Date Tank Closed:	06/01/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	11/01/1992
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None

Tank Number: 008
Tank ID: 8141
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number: 009
Tank ID: 8142
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

Equipment Records:

B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

Tank Number:	010
Tank ID:	8143
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	05/01/1946
Date Tank Closed:	06/01/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	11/01/1992
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None

Tank Number:	011
Tank ID:	8144
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	05/01/1946
Date Tank Closed:	06/01/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

Tightness Test Method: 01
Date Test: 08/01/1991
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Number: 012
Tank ID: 8145
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 08/01/1991
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

Tank Number: OO1
Tank ID: 8135
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Number: OO2
Tank ID: 8136
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 4000
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
G10 - Tank Secondary Containment - Impervious Underlayment
J01 - Dispenser - Pressurized Dispenser
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
H05 - Tank Leak Detection - In-Tank System (ATG)
H99 - Tank Leak Detection - Other

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

Tank Number:	OO3
Tank ID:	8137
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	05/01/1946
Date Tank Closed:	06/01/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	01/01/1992
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

H05 - Tank Leak Detection - In-Tank System (ATG)
H99 - Tank Leak Detection - Other
G04 - Tank Secondary Containment - Double-Walled (Underground)
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
J01 - Dispenser - Pressurized Dispenser
G10 - Tank Secondary Containment - Impervious Underlayment
A03 - Tank Internal Protection - Fiberglass Liner (FRP)

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-153524
Program Type:	PBS
UTM X:	594137.59454
UTM Y:	4520224.56367
Expiration Date:	N/A
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	4866
Affiliation Type:	Facility Owner
Company Name:	LEEMILTS PETROLEUM
Contact Type:	AUTHORIZED REPRESENTATIVE
Contact Name:	MEGAN KAZMIERCZAK
Address1:	2 JERICHO PLAZA, WING C, SUITE 110
Address2:	Not reported
City:	JERICHO
State:	NY
Zip Code:	11753
Country Code:	001
Phone:	(516) 478-5400

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2017-07-26

Site Id: 4866
Affiliation Type: Emergency Contact
Company Name: LEEMILTS PETROLEUM
Contact Type: Not reported
Contact Name: CALL CENTER
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (888) 674-7601
EMail: Not reported
Fax Number: Not reported
Modified By: MFLEONAR
Date Last Modified: 2017-10-30

Site Id: 4866
Affiliation Type: Facility Operator
Company Name: GLOBAL MONTELLO GROUP CORP. #5415
Contact Type: Not reported
Contact Name: ERIC HARVEY
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 289-4663
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2017-07-26

Site Id: 4866
Affiliation Type: Mail Contact
Company Name: GETTY REALTY CORP.
Contact Type: Not reported
Contact Name: JOHN DEMONTE
Address1: 2 JERICHO PLAZA
Address2: WING C, SUITE 110
City: JERICHO
State: NY
Zip Code: 11753
Country Code: 001
Phone: (516) 478-5468
EMail: JDEMONTE@GETTYREALTY.COM
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2018-01-30

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

Tank Info:

Tank Number:	004
Tank Id:	230827
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

J00 - Dispenser - None
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
D00 - Pipe Type - No Piping
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
C00 - Pipe Location - No Piping

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	09/01/2009
Capacity Gallons:	280
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	09/20/2017
Register:	True
Modified By:	DAFRANCI
Last Modified:	01/30/2018
Material Name:	waste oil/used oil

Tank Number:	4
Tank Id:	57616
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
G10 - Tank Secondary Containment - Impervious Underlayment
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring

GLOBAL MONTELLO GROUP CORP. #5415 (Continued) **U004107507**

B05 - Tank External Protection - Jacketed
I04 - Overfill - Product Level Gauge (A/G)
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	06/01/1993
Capacity Gallons:	180
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	09/01/2009
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

U101 **CON EDISON** **NY MANIFEST** **S117739392**
SW **1000 FREEMAN ST** **N/A**
< 1/8 **BRONX, NY 10459**
0.125 mi.
658 ft. **Site 1 of 3 in cluster U**

Relative:
Higher

Actual:
50 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004725065
Facility Status:	Not reported
Location Address 1:	NEC FREEMAN ST & WEST FARMS RD
Code:	BP
Location Address 2:	SB14353
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10461
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004725065
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NYD006982359

CON EDISON (Continued) **S117739392**

Trans2 State ID:	Not reported
Generator Ship Date:	02/04/2015
Trans1 Recv Date:	02/04/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/05/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004725065
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	012774689JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	25
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

U102 **CON EDISON** **NJ MANIFEST** **S120666690**
SW **1000 FREEMAN ST** **N/A**
< 1/8 **BRONX, NY 10459**
0.125 mi.
658 ft. **Site 2 of 3 in cluster U**

Relative: NJ MANIFEST:
Higher

EPA Id:	NYP004725065
Mail Address:	IRVING PL, 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported

Actual:
50 ft.

CON EDISON (Continued) **S120666690**

Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	012774689JJK
EPA ID:	NYP004725065
Date Shipped:	2/4/2015
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NYD006982359
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

U103 **CON EDISON** **RCRA NonGen / NLR** **1018277768**
SW **1000 FREEMAN ST** **FINDS** **NYP004725065**
< 1/8 **BRONX, NY 10459** **ECHO**
0.125 mi.
658 ft. **Site 3 of 3 in cluster U**

Relative:
Higher

Actual:
50 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/04/2015
Facility name:	CON EDISON
Facility address:	1000 FREEMAN ST BRONX, NY 10459
EPA ID:	NYP004725065
Mailing address:	IRVING PL, 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/04/2015
Site name:	CON EDISON
Classification:	Small Quantity Generator
Violation Status:	No violations found

FINDS:

Registry ID: 110067693847

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CON EDISON (Continued) **1018277768**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1018277768
Registry ID: 110067693847
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110067693847

I104 **CON EDISON** **RCRA NonGen / NLR** **1019907940**
SW **1004 FREELAND AVE** **FINDS** **NYP004840118**
1/8-1/4 **BRONX, NY 10454** **ECHO**
0.129 mi.
682 ft. **Site 6 of 6 in cluster I**

Relative:
Higher

Actual:
51 ft.

RCRA NonGen / NLR:
Date form received by agency: 09/17/2015
Facility name: CON EDISON
Facility address: 1004 FREELAND AVE
BRONX, NY 10454
EPA ID: NYP004840118
Mailing address: IRVING PL 15TH FL NE
NEW YORK, NY 10003
Contact: THOMAS TEELING
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: 212-460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/17/2015
Site name: CON EDISON
Classification: Large Quantity Generator

Violation Status: No violations found

CON EDISON (Continued) **1019907940**

FINDS:

Registry ID: 110069649483

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1019907940
Registry ID: 110069649483
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110069649483

105
NE
1/8-1/4
0.131 mi.
691 ft.

CON EDISON - EAST 173RD ST. WORKS MGP **EDR MGP** **1008407867**
WEST FARMS RD. AND BRONX RIVER **N/A**
BRONX, NY 10459

Relative:
Higher

Actual:
12 ft.

Manufactured Gas Plants:
No additional information available

K106
SW
1/8-1/4
0.132 mi.
695 ft.

CON EDISON **NY MANIFEST** **S118464192**
1059 HOME ST **N/A**
BRONX, NY 10459

Site 5 of 6 in cluster K

Relative:
Higher

Actual:
50 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004863870
Facility Status: Not reported
Location Address 1: 1059 HOME ST
Code: BP
Location Address 2: SB 15670
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10459
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004863870
Mailing Name: CON EDISON
Mailing Contact: DENNIS HUACON
Mailing Address 1: 4 IRVING PL 15TH FL

CON EDISON (Continued) **S118464192**

Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	11/02/2015
Trans1 Recv Date:	11/02/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/05/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004863870
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002832478GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

CON EDISON (Continued) **S118464192**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

K107 **ABALON PRECISION MFG. CORP.** **NY AST** **A100175599**
SW **1040 HOME STREET** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.132 mi.
697 ft. **Site 6 of 6 in cluster K**

Relative:
Higher

Actual:
51 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-605331
Program Type:	PBS
UTM X:	593797.66650
UTM Y:	4520287.49451
Expiration Date:	N/A
Site Type:	Manufacturing (Other than Chemical)/Processing

Affiliation Records:

Site Id:	27200
Affiliation Type:	Facility Owner
Company Name:	NORMAN ORENT
Contact Type:	PRES.
Contact Name:	NORMAN ORENT
Address1:	18 WINDWARD LANE
Address2:	Not reported
City:	CITY ISLAND
State:	NY
Zip Code:	10964
Country Code:	001
Phone:	(718) 589-5682
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2016-04-25

Site Id:	27200
Affiliation Type:	Mail Contact
Company Name:	ABALON PRECISION MFG. CORP.
Contact Type:	Not reported
Contact Name:	NORMAN ORENT
Address1:	1040 HOME STREET
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(718) 589-5682
EMail:	ABALONBX@AOL.COM
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2006-01-25

Site Id:	27200
Affiliation Type:	Facility Operator
Company Name:	ABALON PRECISION MFG. CORP.

ABALON PRECISION MFG. CORP. (Continued) **A100175599**

Contact Type:	Not reported
Contact Name:	NORMAN ORENT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-5682
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	27200
Affiliation Type:	Emergency Contact
Company Name:	NORMAN ORENT
Contact Type:	Not reported
Contact Name:	NORMAN ORENT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-5682
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank Id:	59729
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

G03 - Tank Secondary Containment - Vault (w/o access)
L09 - Piping Leak Detection - Exempt Suction Piping
C03 - Pipe Location - Aboveground/Underground Combination
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
F00 - Pipe External Protection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
B05 - Tank External Protection - Jacketed
I05 - Overfill - Vent Whistle

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	07/02/1961
Capacity Gallons:	2000
Tightness Test Method:	NN

ABALON PRECISION MFG. CORP. (Continued) **A100175599**

Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/2015
Register:	True
Modified By:	MRBARROW
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

O108 **CON EDISON** **RCRA NonGen / NLR** **1019901486**
WNW **1499 LONGFELLOW** **FINDS** **NYP004762522**
1/8-1/4 **BRONX, NY 10460** **ECHO**
0.133 mi.
702 ft. **Site 2 of 7 in cluster O**

Relative:
Higher

Actual:
39 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/03/2015
Facility name:	CON EDISON
Facility address:	1499 LONGFELLOW AVE BRONX, NY 10474
EPA ID:	NYP004762522
Mailing address:	IRVING PL 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	04/03/2015
Site name:	CON EDISON
Classification:	Large Quantity Generator

Violation Status: No violations found

FINDS:

CON EDISON (Continued) **1019901486**

Registry ID: 110069641864

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1019901486
Registry ID: 110069641864
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110069641864

O109 **CON EDISON** **NJ MANIFEST** **S120670004**
WNW **1499 LONGFELLOW AVE** **N/A**
1/8-1/4 **BRONX, NY 10474**
0.133 mi.
702 ft. **Site 3 of 7 in cluster O**

Relative:
Higher

Actual:
39 ft.

NJ MANIFEST:
EPA Id: NYP004762522
Mail Address: IRVING PL 15TH FL NE
Mail City/State/Zip: NEW YORK, NY 10003
Facility Phone: Not reported
Emergency Phone: Not reported
Contact: THOMAS TEELING
Comments: Not reported
SIC Code: Not reported
County: NY005
Municipal: Not reported
Previous EPA Id: Not reported
Gen Flag: Not reported
Trans Flag: Not reported
TSDF Flag: Not reported
Name Change: Not reported
Date Change: Not reported

Manifest:
Manifest Number: 002660891GBF
EPA ID: NYP004762522
Date Shipped: 4/3/2015
TSDF EPA ID: NJD991291105
Transporter EPA ID: NJD003812047
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 9 EPA ID: Not reported
Transporter 10 EPA ID: Not reported

CON EDISON (Continued) **S120670004**

Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

O110 **CON EDISON** **NY MANIFEST** **S119074130**
WNW **1499 LONGFELLOW AVE** **N/A**
1/8-1/4 **BRONX, NY 10474**
0.133 mi.
702 ft. **Site 4 of 7 in cluster O**

Relative:
Higher

Actual:
39 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004762522
Facility Status:	Not reported
Location Address 1:	1499 LONG FELLOW AVENUE
Code:	BP
Location Address 2:	M 17620
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004762522
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported

CON EDISON (Continued) **S119074130**

Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	04/03/2015
Trans1 Recv Date:	04/03/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/07/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004762522
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002660891GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

O111 **CON EDISON** **RCRA NonGen / NLR** **1019903663**
WNW **1499 LONGFELLOW** **NYP004788394**
1/8-1/4 **BRONX, NY 10460**
0.133 mi.
702 ft. **Site 5 of 7 in cluster O**

Relative: **Higher**
Actual: **39 ft.**

RCRA NonGen / NLR:

Date form received by agency:	05/30/2015
Facility name:	CON EDISON
Facility address:	1499 LONGFELLOW BRONX, NY 10460
EPA ID:	NYP004788394
Mailing address:	IRVING PL 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	05/30/2015
Site name:	CON EDISON
Classification:	Small Quantity Generator

Violation Status: No violations found

O112 **CON EDISON** **NJ MANIFEST** **S120672274**
WNW **1499 LONGFELLOW** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.133 mi.
702 ft. **Site 6 of 7 in cluster O**

Relative: **Higher**
Actual: **39 ft.**

NJ MANIFEST:

EPA Id:	NYP004788394
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported

CON EDISON (Continued) **S120672274**

Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	014091765JJK
EPA ID:	NYP004788394
Date Shipped:	5/30/2015
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NYD006982359
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

O113 **CON EDISON** **NY MANIFEST** **S119075590**
WNW **1499 LONGFELLOW** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.133 mi.
702 ft. **Site 7 of 7 in cluster O**

Relative:
Higher

Actual:
39 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004788394
Facility Status:	Not reported
Location Address 1:	LONG FELLOW AVE & E 172ND ST
Code:	BP
Location Address 2:	MH 17620
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004788394
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	05/30/2015
Trans1 Recv Date:	05/30/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/03/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004788394
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	014091765JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S119075590**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	150
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Q114 **TABS LA MAQUINA AUTO REPAIR INC.** **NY AST** **A100296730**
SSW **1301 WESTCHESTER AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.134 mi.
707 ft. **Site 4 of 8 in cluster Q**

Relative: **Higher**

Actual: **39 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-610009
Program Type:	PBS
UTM X:	593903.16259
UTM Y:	4520214.65410
Expiration Date:	08/04/2014
Site Type:	Auto Service/Repair (No Gasoline Sales)

Affiliation Records:

Site Id:	351559
Affiliation Type:	Mail Contact
Company Name:	TABS LA MAQUINA AUTO REPAIR INC.
Contact Type:	Not reported
Contact Name:	SAMUEL D. NUNEZ
Address1:	1301 WESTCHESTER AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(718) 542-4433
EMail:	Not reported
Fax Number:	Not reported

TABS LA MAQUINA AUTO REPAIR INC. (Continued) **A100296730**

Modified By: NRLOMBAR
Date Last Modified: 2009-08-04

Site Id: 351559
Affiliation Type: Facility Operator
Company Name: TABS LA MAQUINA AUTO REPAIR INC.
Contact Type: Not reported
Contact Name: SAMUEL D. NUNEZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 542-4433
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2009-08-04

Site Id: 351559
Affiliation Type: Emergency Contact
Company Name: JOEL F. NUNEZ
Contact Type: Not reported
Contact Name: SAMUEL D. NUNEZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 664-7992
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2009-08-04

Site Id: 351559
Affiliation Type: Facility Owner
Company Name: JOEL F. NUNEZ
Contact Type: Not reported
Contact Name: Not reported
Address1: 400 E. MOSHULO PW S.
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10458
Country Code: 001
Phone: (718) 664-7992
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2009-08-04

Tank Info:

Tank Number: 402

TABS LA MAQUINA AUTO REPAIR INC. (Continued) **A100296730**

Tank Id: 207838
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
A01 - Tank Internal Protection - Epoxy Liner
K01 - Spill Prevention - Catch Basin
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
G10 - Tank Secondary Containment - Impervious Underlayment
I03 - Overfill - Automatic Shut-Off
E01 - Piping Secondary Containment - Diking (AG only)
L02 - Piping Leak Detection - Interstitial - Manual Monitoring
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 02/15/1994
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NRLOMBAR
Last Modified: 04/14/2017
Material Name: waste oil/used oil

Q115 **VERIZON** **RCRA-LQG** **1017788009**
SSW **WESTCHESTER AVE & HOME ST** **FINDS** **NYP000971580**
1/8-1/4 **BRONX, NY 10459** **ECHO**
0.136 mi.
716 ft. **Site 5 of 8 in cluster Q**

Relative: **Higher**
Actual: **38 ft.**

RCRA-LQG:
Date form received by agency: 02/16/2016
Facility name: VERIZON
Facility address: WESTCHESTER AVE & HOME ST
BRONX, NY 10459
EPA ID: NYP000971580
Mailing address: BAY AVE
PATCHOGUE, NY 11772
Contact: THOMAS BOSSHARD
Contact address: BAY AVE
PATCHOGUE, NY 11772
Contact country: US
Contact telephone: 631-569-3343
Contact email: THOMAS.BOSSHARD@VERIZON.COM
EPA Region: 02
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste

VERIZON (Continued) **1017788009**

during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	VERIZON NEW YORK INC.
Owner/operator address:	BAY AVE PATCHOGUE, NY 11772
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/31/2015
Owner/Op end date:	Not reported

Owner/operator name:	VERIZON NEW YORK INC.
Owner/operator address:	BAY AVE PATCHOGUE, NY 11772
Owner/operator country:	US
Owner/operator telephone:	631-569-3343
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	03/31/2015
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D008

VERIZON (Continued) **1017788009**

. Waste name: LEAD

Historical Generators:
Date form received by agency: 06/29/2015
Site name: VERIZON
Classification: Not a generator, verified

Date form received by agency: 03/30/2015
Site name: VERIZON
Classification: Small Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D008
Waste name: LEAD
Amount (Lbs): 2700

Violation Status: No violations found

FINDS:

Registry ID: 110064020802

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1017788009
Registry ID: 110064020802
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110064020802

Q116 **VERIZON** **NY MANIFEST** **S118086870**
SSW **WESTCHESTER AVE & HOME ST** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.136 mi.
716 ft. **Site 6 of 8 in cluster Q**

Relative:
Higher

Actual:
38 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP000971580
Facility Status: Not reported
Location Address 1: WESTCHESTER AVENUE & HOME STRE
Code: BP

VERIZON (Continued) **S118086870**

Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10459
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP000971580
Mailing Name: VERIZON
Mailing Contact: VERIZON
Mailing Address 1: 501 NORTH OCEAN AVE
Mailing Address 2: Not reported
Mailing City: PATCHOGUE
Mailing State: NY
Mailing Zip: 11772
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 6316541920

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2015
Trans1 State ID: NYR000107326
Trans2 State ID: Not reported
Generator Ship Date: 03/31/2015
Trans1 Recv Date: 03/31/2015
Trans2 Recv Date: Not reported
TSD Site Recv Date: 04/01/2015
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP000971580
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NYD077444263
TSDF ID 2: Not reported
Manifest Tracking Number: 004554311FLE
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N
Discr Type Indicator: N
Discr Residue Indicator: N
Discr Partial Reject Indicator: N
Discr Full Reject Indicator: N
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: H141
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 2700

VERIZON (Continued) **S118086870**

Units:	P - Pounds
Number of Containers:	9
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

P117 **CON EDISON** **NY MANIFEST** **S117736438**
NNE **E 173RD ST & WEST FARMS RD** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.137 mi.
723 ft. **Site 6 of 8 in cluster P**

Relative:
Higher

Actual:
21 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004516092
Facility Status:	Not reported
Location Address 1:	E173 ST & WEST FARMS RD
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10465
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004516092
Mailing Name:	CON EDISON
Mailing Contact:	TOM TELLING
Mailing Address 1:	4 IRVING PLACE-15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	04/29/2014
Trans1 Recv Date:	04/29/2014
Trans2 Recv Date:	Not reported

CON EDISON (Continued) **S117736438**

TSD Site Recv Date:	04/30/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004516092
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	012771898JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	3000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

P118 **CON EDISON** **NY MANIFEST** **S117319095**
NNE **W FARMS RD & E 173RD ST** **N/A**
1/8-1/4 **BRONX, NY**
0.137 mi.
723 ft. **Site 7 of 8 in cluster P**

Relative: **Higher**
Actual: **21 ft.**

NY MANIFEST:

Country:	USA
EPA ID:	NYP004667457
Facility Status:	Not reported
Location Address 1:	W FARMS RD & E 173RD ST
Code:	BP
Location Address 2:	VAULT 196
Total Tanks:	Not reported
Location City:	BRONX

CON EDISON (Continued) **S117319095**

Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004667457
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	09/26/2014
Trans1 Recv Date:	09/26/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/26/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004667457
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	013255747JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks

CON EDISON (Continued) **S117319095**

Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

P119 **CON EDISON TRANSFORMER MANHOLE: 0940** **RCRA NonGen / NLR** **1017773816**
NNE **E 173RD ST & WEST FARMS RD** **NYP004516092**
1/8-1/4 **BRONX, NY 10465**
0.137 mi.
723 ft. **Site 8 of 8 in cluster P**

Relative:
Higher

Actual:
21 ft.

RCRA NonGen / NLR:

Date form received by agency:	05/29/2014
Facility name:	CON EDISON TRANSFORMER MANHOLE: 0940
Facility address:	E 173RD ST & WEST FARMS RD BRONX, NY 10465
EPA ID:	NYP004516092
Mailing address:	IRVING PL, 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	04/29/2014
Site name:	CON EDISON

CON EDISON TRANSFORMER MANHOLE: 0940 (Continued) **1017773816**

Classification: Large Quantity Generator

Date form received by agency: 04/29/2014
Site name: CON EDISON
Classification: Not a generator, verified

Violation Status: No violations found

Q120
SSW
1/8-1/4
0.145 mi.
767 ft.

1084-1086 HOME ST.
1084 HOME STREET
BRONX, NY 10459

Site 7 of 8 in cluster Q

NY AST **A100173654**
N/A

Relative:
Higher

Actual:
43 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-604903
Program Type: PBS
UTM X: 593882.49784
UTM Y: 4520247.68030
Expiration Date: 12/15/2020
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 26772
Affiliation Type: Facility Owner
Company Name: B.K. HOME STREET HDFC
Contact Type: ENERGY MANAGER
Contact Name: STEVEN BASTIAN
Address1: 87-14 116TH ST
Address2: Not reported
City: RICHMOND HILL
State: NY
Zip Code: 11418
Country Code: 001
Phone: (718) 463-1200
EMail: Not reported
Fax Number: Not reported
Modified By: NTFREEMA
Date Last Modified: 2015-11-02

Site Id: 26772
Affiliation Type: Mail Contact
Company Name: WAVECREST MANAGEMENT LTD
Contact Type: Not reported
Contact Name: CHRISTINA PIMENTEL
Address1: 87-14 116TH STREET
Address2: Not reported
City: RICHMOND HILL
State: NY
Zip Code: 11418
Country Code: 001
Phone: (718) 412-3736
EMail: CPIMENTEL@TWMT.NET
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2012-07-25

1084-1086 HOME ST. (Continued) **A100173654**

Site Id:	26772
Affiliation Type:	Facility Operator
Company Name:	1084-1086 HOME ST.
Contact Type:	Not reported
Contact Name:	HOPE BURGESS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-1064
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-11-02

Site Id:	26772
Affiliation Type:	Emergency Contact
Company Name:	B.K. HOME STREET HDFC
Contact Type:	Not reported
Contact Name:	WILLIAM SCHUR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 733-6300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-07-25

Tank Info:

Tank Number:	1
Tank Id:	59096
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

H99 - Tank Leak Detection - Other
G01 - Tank Secondary Containment - Diking (Aboveground)
C03 - Pipe Location - Aboveground/Underground Combination
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
I02 - Overfill - High Level Alarm
L09 - Piping Leak Detection - Exempt Suction Piping
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
J01 - Dispenser - Pressurized Dispenser
G02 - Tank Secondary Containment - Vault (w/access)

Tank Location: 1

1084-1086 HOME ST. (Continued) **A100173654**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1997
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	04/14/2017
Material Name:	#6 fuel oil (on-site consumption)

Q121 **1084 - 1086_HOME STREET** **NY AST** **U003394843**
SSW **1084-1086 HOME STREET** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.145 mi.
767 ft. **Site 8 of 8 in cluster Q**

Relative: **Higher**
Actual: **43 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Inactive
Facility Id:	2-469106
Program Type:	PBS
UTM X:	593882.49784
UTM Y:	4520247.68030
Expiration Date:	N/A
Site Type:	Unknown

Affiliation Records:

Site Id:	20481
Affiliation Type:	Facility Owner
Company Name:	CITY OF NEW YORK H.P.D.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	75 MAIDEN AVENUE
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 806-8091
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	20481
Affiliation Type:	Mail Contact
Company Name:	CITY OF NEW YORK H.P.D.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	75 MAIDEN AVENUE
Address2:	Not reported
City:	NEW YORK
State:	NY

1084 - 1086_HOME STREET (Continued) **U003394843**

Zip Code:	10038
Country Code:	001
Phone:	(212) 806-8091
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	20481
Affiliation Type:	Facility Operator
Company Name:	1084 - 1086_HOME STREET
Contact Type:	Not reported
Contact Name:	P. LODH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 806-8091
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	20481
Affiliation Type:	Emergency Contact
Company Name:	CITY OF NEW YORK H.P.D.
Contact Type:	Not reported
Contact Name:	CRANSTON DARRIS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 617-7832
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank Id:	37181
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
L09 - Piping Leak Detection - Exempt Suction Piping
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

1084 - 1086_HOME STREET (Continued) **U003394843**

J02 - Dispenser - Suction Dispenser
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Tank Converted to Non-Regulated Use
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

V122 **ABALON PRECISION MFG CORP** **RCRA NonGen / NLR** **1001202867**
SSW **1074 HOME ST** **FINDS** **NYN008006645**
1/8-1/4 **BRONX, NY 10459** **ECHO**
0.146 mi.
770 ft. **Site 1 of 7 in cluster V**

Relative:
Higher

Actual:
46 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	ABALON PRECISION MFG CORP
Facility address:	1074 HOME ST BRONX, NY 10459
EPA ID:	NYN008006645
Mailing address:	HOME ST BRONX, NY 10459
Contact:	Not reported
Contact address:	HOME ST BRONX, NY 10459
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NON REGULATED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, PR 99999
Owner/operator country:	US
Owner/operator telephone:	718-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

ABALON PRECISION MFG CORP (Continued) **1001202867**

Owner/operator name: NON REGULATED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, PR 99999
Owner/operator country: US
Owner/operator telephone: 718-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: ABALON PRECISION MFG CORP
Classification: Not a generator, verified

Date form received by agency: 09/17/1997
Site name: ABALON PRECISION MFG CORP
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 04/10/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110004510244

Environmental Interest/Information System

ABALON PRECISION MFG CORP (Continued) **1001202867**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001202867
Registry ID:	110004510244
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004510244

T123 **B S AUTO PARTS** **RCRA NonGen / NLR** **1000890253**
SSE **1170 BRONX RIVER AVE** **FINDS** **NY0000298794**
1/8-1/4 **BRONX, NY 10472** **ECHO**
0.148 mi.
782 ft. **Site 8 of 9 in cluster T**

Relative: **Higher**

Actual: **20 ft.**

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	B S AUTO PARTS
Facility address:	1170 BRONX RIVER AVE BRONX, NY 10472-3102
EPA ID:	NY0000298794
Mailing address:	BRONX RIVER AVE BRONX, NY 10472
Contact:	Not reported
Contact address:	BRONX RIVER AVE BRONX, NY 10472
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MANUEL FERRER
Owner/operator address:	1170 BRONX RIVER AVE BRONX, NY 10472
Owner/operator country:	US
Owner/operator telephone:	718-842-3440
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	MANUEL FERRER
Owner/operator address:	1170 BRONX RIVER AVE BRONX, NY 10472

B S AUTO PARTS (Continued) **1000890253**

Owner/operator country: US
Owner/operator telephone: 718-842-3440
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: B S AUTO PARTS
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: B S AUTO PARTS
Classification: Not a generator, verified

Date form received by agency: 05/18/1994
Site name: B S AUTO PARTS
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D018

B S AUTO PARTS (Continued) **1000890253**

. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110004315269

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000890253
Registry ID: 110004315269
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004315269

R124 **VICPAT REALTY CORP** **NY UST** **U004186032**
SSE **1452 WESTCHESTER AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.148 mi.
784 ft. **Site 9 of 9 in cluster R**

Relative:
Higher

Actual:
22 ft.

UST:

Id/Status: 2-611721 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 594244.12059
UTM Y: 4520291.08733
Site Type: Other

Affiliation Records:

Site Id: 458814
Affiliation Type: Facility Owner
Company Name: VICPAT REALTY CORP % RYAN PEDRAM
Contact Type: Not reported
Contact Name: Not reported
Address1: 211-12 UNION TURNPIKE
Address2: Not reported

VICPAT REALTY CORP (Continued) **U004186032**

City:	FLUSHING
State:	NY
Zip Code:	11364
Country Code:	001
Phone:	(917) 324-0000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-02-27

Site Id:	458814
Affiliation Type:	Mail Contact
Company Name:	NY BUILDERS
Contact Type:	Not reported
Contact Name:	RYAN PEDRAM
Address1:	211-12 UNION TURNPIKE
Address2:	Not reported
City:	FLUSHING
State:	NY
Zip Code:	11364
Country Code:	001
Phone:	(917) 324-0000
EMail:	RYANPEDRAM1@YAHOO.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-02-27

Site Id:	458814
Affiliation Type:	Facility Operator
Company Name:	VICPAT REALTY CORP
Contact Type:	Not reported
Contact Name:	NY BUILDERS (RYAN)
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 324-0000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-02-27

Site Id:	458814
Affiliation Type:	Emergency Contact
Company Name:	VICPAT REALTY CORP % RYAN PEDRAM
Contact Type:	Not reported
Contact Name:	RYAN PEDRAM
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 324-0000
EMail:	Not reported

VICPAT REALTY CORP (Continued) **U004186032**

Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-02-27

Tank Info:

Tank Number:	001
Tank ID:	241872
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1945
Date Tank Closed:	01/15/2013
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J00 - Dispenser - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
L00 - Piping Leak Detection - None

Tank Number:	002
Tank ID:	241873
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1945
Date Tank Closed:	01/15/2013
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported

VICPAT REALTY CORP (Continued) **U004186032**

Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 04/14/2017

Equipment Records:

K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
L00 - Piping Leak Detection - None

Tank Number: 003
Tank ID: 241874
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1945
Date Tank Closed: 01/15/2013
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
J00 - Dispenser - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
L00 - Piping Leak Detection - None

Tank Number: 004
Tank ID: 241875
Tank Status: Closed - Removed
Material Name: Closed - Removed

VICPAT REALTY CORP (Continued) **U004186032**

Capacity Gallons:	550
Install Date:	01/01/1945
Date Tank Closed:	01/15/2013
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J00 - Dispenser - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
L00 - Piping Leak Detection - None

Tank Number:	005
Tank ID:	241876
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	275
Install Date:	01/01/1945
Date Tank Closed:	01/14/2013
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J00 - Dispenser - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

VICPAT REALTY CORP (Continued) **U004186032**

E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
L00 - Piping Leak Detection - None

Tank Number: 006
Tank ID: 247327
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 01/15/2013
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 04/14/2017

Equipment Records:

K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J00 - Dispenser - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
L00 - Piping Leak Detection - None

Tank Number: 007
Tank ID: 247328
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 100
Install Date: Not reported
Date Tank Closed: 01/16/2013
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported

VICPAT REALTY CORP (Continued) **U004186032**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 04/14/2017

Equipment Records:

K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J00 - Dispenser - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
L00 - Piping Leak Detection - None

Tank Number: 008
Tank ID: 247329
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 100
Install Date: Not reported
Date Tank Closed: 01/16/2013
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J00 - Dispenser - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
L00 - Piping Leak Detection - None

W125 **ALEX AUTO REPAIR SHOP** **RCRA NonGen / NLR** **1001233203**
North **1006 E 173RD ST** **FINDS** **NYR000063396**
1/8-1/4 **BRONX, NY 10460** **ECHO**
0.149 mi. **NY MANIFEST**
787 ft. **Site 1 of 12 in cluster W**

Relative:
Higher

Actual:
31 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	ALEX AUTO REPAIR SHOP
Facility address:	1006 E 173RD ST BRONX, NY 10460
EPA ID:	NYR000063396
Mailing address:	E 173RD ST BRONX, NY 10460
Contact:	ANGELA ROSADO
Contact address:	E 173RD ST BRONX, NY 10460
Contact country:	US
Contact telephone:	718-893-6190
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BOONE AVENUE REALTY
Owner/operator address:	810 E 170TH ST BRONX, NY 10459
Owner/operator country:	US
Owner/operator telephone:	718-328-4210
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	BOONE AVENUE REALTY
Owner/operator address:	810 E 170TH ST BRONX, NY 10459
Owner/operator country:	US
Owner/operator telephone:	718-328-4210
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

ALEX AUTO REPAIR SHOP (Continued) **1001233203**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: ALEX AUTO REPAIR SHOP
Classification: Not a generator, verified

Date form received by agency: 11/13/1998
Site name: ALEX AUTO REPAIR SHOP
Classification: Small Quantity Generator

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

FINDS:

Registry ID: 110004548669

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1001233203
Registry ID: 110004548669
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004548669

NY MANIFEST:
Country: USA
EPA ID: NYR000063396
Facility Status: Not reported
Location Address 1: 1006 E 173RD ST
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460

ALEX AUTO REPAIR SHOP (Continued) **1001233203**

Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYR000063396
Mailing Name: ALEX AUTO REPAIR SHOP
Mailing Contact: N/S
Mailing Address 1: 1006 E 173RD ST
Mailing Address 2: Not reported
Mailing City: BRONX
Mailing State: NY
Mailing Zip: 10460
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7188936190

NY MANIFEST:
Document ID: ILA9180957
Manifest Status: Not reported
seq: 01
Year: 2000
Trans1 State ID: UPW151288
Trans2 State ID: UPW203954
Generator Ship Date: 03/03/2000
Trans1 Recv Date: 03/03/2000
Trans2 Recv Date: 03/08/2000
TSD Site Recv Date: 03/11/2000
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000063396
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: SCR000074591
TSDF ID 1: ILD980613913
TSDF ID 2: Not reported
Manifest Tracking Number: Not reported
Import Indicator: Not reported
Export Indicator: Not reported
Discr Quantity Indicator: Not reported
Discr Type Indicator: Not reported
Discr Residue Indicator: Not reported
Discr Partial Reject Indicator: Not reported
Discr Full Reject Indicator: Not reported
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: Not reported
Waste Code: F005 - UNKNOWN
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 00036
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00

ALEX AUTO REPAIR SHOP (Continued) **1001233203**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

X126 **CON EDISON** **NY MANIFEST** **S117061156**
ESE **1252 EVERGREEN AVE** **N/A**
1/8-1/4 **BRONX, NY 10457**
0.151 mi.
795 ft. **Site 1 of 4 in cluster X**

Relative:
Higher

Actual:
28 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004534368
Facility Status:	Not reported
Location Address 1:	1252 EVENGREEN AVE
Code:	BP
Location Address 2:	SB 3790
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004534368
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	05/16/2014
Trans1 Recv Date:	05/16/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/16/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004534368
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	012771925JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N

CON EDISON (Continued) **S117061156**

Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

X127 **CON EDISON SERVICE BOX: 3790** **RCRA NonGen / NLR** **1017775595**
ESE **1252 EVERGREEN AVE** **NYP004534368**
1/8-1/4 **BRONX, NY 10457**
0.151 mi.
795 ft. **Site 2 of 4 in cluster X**

Relative:
Higher

Actual:
28 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/16/2014
Facility name:	CON EDISON SERVICE BOX: 3790
Facility address:	1252 EVERGREEN AVE BRONX, NY 10457
EPA ID:	NYP004534368
Mailing address:	IRVING PL, 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

CON EDISON SERVICE BOX: 3790 (Continued) **1017775595**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	05/16/2014
Site name:	CON EDISON
Classification:	Large Quantity Generator

Date form received by agency:	05/16/2014
Site name:	CON EDISON
Classification:	Not a generator, verified

Violation Status: No violations found

W128 **CON EDISON** **NY MANIFEST** **S119075944**
North **173RD ST & BOONE AVE** **N/A**
1/8-1/4 **BRONX, NY 10457**
0.152 mi.
801 ft. **Site 2 of 12 in cluster W**

Relative: **Higher**
Actual: **30 ft.**

NY MANIFEST:

Country:	USA
EPA ID:	NYP004795753
Facility Status:	Not reported
Location Address 1:	173 ST BOONE AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004795753
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

CON EDISON (Continued) **S119075944**

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	06/17/2015
Trans1 Recv Date:	06/17/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/17/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004795753
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	014454223JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	Not reported
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	D008
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

W129 **CON EDISON** **NJ MANIFEST** **S120672923**
North **173RD ST & BOONE AVE** **N/A**
1/8-1/4 **BRONX, NY 10457**
0.152 mi.
801 ft. **Site 3 of 12 in cluster W**

Relative:
Higher

Actual:
30 ft.

NJ MANIFEST:

EPA Id:	NYP004795753
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	014454223JJK
EPA ID:	NYP004795753
Date Shipped:	6/17/2015
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported

CON EDISON (Continued) **S120672923**

Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

W130 **CON EDISON** **RCRA NonGen / NLR** **1019904262**
North **173RD ST & BOONE AVE** **NYP004795753**
1/8-1/4 **BRONX, NY 10457**
0.152 mi.
801 ft. **Site 4 of 12 in cluster W**

Relative:
Higher

Actual:
30 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/17/2015
Facility name:	CON EDISON
Facility address:	173RD ST & BOONE AVE BRONX, NY 10457
EPA ID:	NYP004795753
Mailing address:	IRVING PL 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	06/17/2015
Site name:	CON EDISON
Classification:	Large Quantity Generator

Violation Status: No violations found

S131 **MANHOLE 17607** **NY Spills** **S106003712**
WSW **1431 LONGFELLOW AVE** **NY MANIFEST** **N/A**
1/8-1/4 **BRONX, NY**
0.153 mi.
808 ft. **Site 3 of 3 in cluster S**

Relative: **Higher**

Actual: **61 ft.**

SPILLS:

Facility ID:	0201783
Facility Type:	ER
Spill Number:	0201783
DER Facility ID:	210833
Site ID:	257480
DEC Region:	2
Closed Date:	2002-06-07
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	2002-05-18
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	2002-05-18
CID:	397
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-05-18
Spill Record Last Update:	2002-09-18
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	CALLER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was FOLEY Con Ed e2mis #142864: 18-MAY-2002 06:05 Flush Mech W. Silkowski #82003 reports that he responded to a emergency outage to assist number nine when he observed ~ 2 gallons of unknown oil possibly from a car that was parked over the structure at the time that of the secondary burn out occurred. Environmental tag #32975 has been placed, and a sample has been taken. There was fire, and smoke involved and private property affected. There has been buildings evacuated at this location. How many is unknown at this time. 06:10 Astoria has no tanker. 06:15 Shift Manager has notified EH&S that the crew will be cutting all the mains that lead to the structure avoiding working in the unknown oil. 06:15 Chemist has been requested by Shift Manager T. Curley. 06:19 Chemist is being called in from home. 06:29 All State is in route to location. 18-MAY-2002 06:40 CIG Morris #85791 notified. Car that was involved in the incident is a 1986 Honda NYS licence plate #BRS-1355. 18-May-2002 07:30 Chemist was canceled, Flush Mech W. Silkowski will bring three samples out to chem lab to save time. Sample types taken. Oil ID, Flash point, and PCB. 18-May-2002 08:00 Update: There were six buildings involved in the evacuation, and all occupants were let back into the buildings at 06:30. 18-May-2002 09:15 Flush Mech E. Gafur #19528 reports All State

MANHOLE 17607 (Continued) **S106003712**

Tanker on location. 09:25 EPA # requested from ERT S. Mahoney #86887. 09:30 EPA #NYP 004 098 471 generated. Update: Feeder number 4X55 OA at the time of this incident, and the fault is believed to be in this structure. 18-May-2002 10:00 Flush Mech W. Silkowski #82003 reports that the product in the structure was ignited by the faulty cable in the structure, and was extinguished by the FDNY. It appears that most of the product burnt off. Chem labs reports that the product is mostly water, and they will not be able to test for flash point. 18-May-2002 10:19 Flush Mech E. Gafur #19528 reports that clean up is complete at this time. All State Power Vac Tanker removed 600 gallons of unknown liquid the is being treated as 50-499 PCB. The structure was double washed by E. Gafur, and no solid waste other than a 4' X 8 piece of wood which was drumed, and transported back to Van Nest in a Con Ed Van that is not normally used for this fuction. Clean up complete, and environmental tag is removed. 18-May-2002 11:20 Solid waste drum is not being transported to Van Nest, it will be picked up by Astoria Transportation. O.S. T. Tottora reported the there is no oil coming from the secondary, but the lead jacketed secondary is badly burnt. The waste is being treated as lead hazardous. 11:25 called Astoria for a drum pickup. 18-May-2002 14:00 Solid waste drum has been picked up. Page 1 of 1 5/18/2002 Consolidated Edison Environment, Health and Safety ChemLab NELAP NY Lab ID No: 10380 Lab Sequence Number: 02-04476-001 Date Approved: 5/18/2002 E2 Incident Number: 142864 Date Received: 5/18/2002 Chain of Custody ID: CC01259 Date Sampled: 5/18/2002 PCB Analysis by EPA 608/8082 MATRIX: WATER GRAB DESCRIPTION: WATER/OIL FROM MH#17607 LOCATION: F/O 1431 LONGFELLOW AVE STRUCTURE: MANHOLE 17607 FEEDER ID: QC ID: 01-200205120902 TEST DESCRIPTION RESULT UNIT METHOD Aroclor 1242 < 1.0 ppm EPA 608/8082 Aroclor 1254 < 1.0 ppm EPA 608/8082 Aroclor 1248 < 1.0 ppm EPA 608/8082 Aroclor 1260 < 1.0 ppm EPA 608/8082 THE DCB SURROGATE WAS OUT OF THE QC LIMITS. SINCE ALL OF THE SAMPLE WAS USED, RE-ANALYSIS WAS NOT POSSIBLE. THE REPORTED PCB VALUE IS THE MINIMUM AMOUNT DETECTED.FLASHPOINT WAS NOT RUN DUE TO NATURE OF THE SAMPLE-ALL WATER MATRIX. Approval Status: APPROVED Approved By: Edward Chin Title: SUPERVISOR --End of Report-- Search for Results at: http://q137lims/lims 18-May-2002 14:10 All waste from this structure both liquid, and solid are being disposed of as lead hazardous waste due to sample result that were received less than 1 ppm PCB that is the only known hazardous substance in the waste. "

Remarks: "caller states that there was a manhole fire. a car was parked on top of the manhole and the oil is poss from the veh. unk coned#142864"

All Materials:

Site ID:	257480
Operable Unit ID:	852762
Operable Unit:	01
Material ID:	523194
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

MANHOLE 17607 (Continued) **S106003712**

NY MANIFEST:

Country:	USA
EPA ID:	NYP004098471
Facility Status:	Not reported
Location Address 1:	1431 LONGFELLOW AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004098471
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address 1:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124602808

NY MANIFEST:

Document ID:	NYE0260482
Manifest Status:	Not reported
seq:	01
Year:	2002
Trans1 State ID:	60913AX
Trans2 State ID:	60913AX
Generator Ship Date:	05/18/2002
Trans1 Recv Date:	05/18/2002
Trans2 Recv Date:	05/20/2002
TSD Site Recv Date:	05/22/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004098471
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	NYD006982359
TSDF ID 1:	NYD077444263
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP

MANHOLE 17607 (Continued) **S106003712**

Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00050
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

T132 **1150 BRONX RIVER AVENUE** **NY UST** **U003178582**
South **1150 BRONX RIVER AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10462**
0.154 mi.
812 ft. **Site 9 of 9 in cluster T**

Relative:
Higher

Actual:
20 ft.

UST:

Id/Status:	2-603026 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	594165.05107
UTM Y:	4520152.21015
Site Type:	Manufacturing (Other than Chemical)/Processing

Affiliation Records:

Site Id:	24981
Affiliation Type:	Facility Owner
Company Name:	CASTLE OIL CORP
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	500 MAMARONECK AVENUE
Address2:	Not reported
City:	HARRISON
State:	NY
Zip Code:	10528
Country Code:	001
Phone:	(914) 381-6500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	24981
Affiliation Type:	Mail Contact
Company Name:	CASTLE OIL CORP
Contact Type:	Not reported
Contact Name:	CARLA LYNN ROMITA
Address1:	500 MAMARONECK AVENUE
Address2:	Not reported
City:	HARRISON

1150 BRONX RIVER AVENUE (Continued) **U003178582**

State:	NY
Zip Code:	10528
Country Code:	001
Phone:	(914) 381-6500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	24981
Affiliation Type:	Facility Operator
Company Name:	1150 BRONX RIVER AVENUE
Contact Type:	Not reported
Contact Name:	BOB DOLAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(914) 381-6500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	24981
Affiliation Type:	Emergency Contact
Company Name:	CASTLE OIL CORP
Contact Type:	Not reported
Contact Name:	BOB DOLAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(914) 381-6500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	52713
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	2000
Install Date:	Not reported
Date Tank Closed:	04/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

1150 BRONX RIVER AVENUE (Continued) **U003178582**

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I05 - Overfill - Vent Whistle

X133 **CON EDISON** **NY MANIFEST** **S117318155**
SE **1236 EVERGREEN AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.156 mi.
824 ft. **Site 3 of 4 in cluster X**

Relative:
Higher

Actual:
26 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004656567
Facility Status: Not reported
Location Address 1: 1236 EVERGREEN AV
Code: BP
Location Address 2: SB3599
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10472
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004656567
Mailing Name: CON EDISON
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL
Mailing Address 2: 15TH FL
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 09/12/2014

CON EDISON (Continued) **S117318155**

Trans1 Recv Date:	09/12/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/15/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004656567
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563620GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	800
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

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-1 additional NY MANIFEST: record(s) in the EDR Site Report.

X134 **CON EDISON** **NY MANIFEST** **S117316573**
SE **1236 EVERGREEN AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.156 mi.
824 ft. **Site 4 of 4 in cluster X**

Relative: NY MANIFEST:
Higher

Actual: Country:	USA
26 ft. EPA ID:	NYP004638474
Facility Status:	Not reported
Location Address 1:	1236 EVERGREEN AV
Code:	BP
Location Address 2:	SB3599

CON EDISON (Continued) **S117316573**

Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004638474
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/25/2014
Trans1 Recv Date:	08/25/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/28/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004638474
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563021GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2000
Units:	P - Pounds

CON EDISON (Continued) **S117316573**

Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Y135 **1468 BRYANT REALTY LLC** **NY AST** **A100175051**
West **1468 BRYANT AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.157 mi.
827 ft. **Site 1 of 11 in cluster Y**

Relative:
Higher

Actual:
54 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-153249
Program Type:	PBS
UTM X:	593787.53614
UTM Y:	4520701.12478
Expiration Date:	06/07/2023
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	4841
Affiliation Type:	Mail Contact
Company Name:	ANNIE VACA
Contact Type:	Not reported
Contact Name:	ISRAEL RUIZ
Address1:	11 AVENUE F
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11218
Country Code:	001
Phone:	(212) 289-4300
EMail:	ANNIE@CYAMGMT.COM
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-12

Site Id:	4841
Affiliation Type:	Facility Operator
Company Name:	1468 BRYANT REALTY LLC
Contact Type:	Not reported
Contact Name:	ISRAEL RUIZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported

1468 BRYANT REALTY LLC (Continued) **A100175051**

State: NN
Zip Code: Not reported
Country Code: 001
Phone: (347) 376-2585
EMail: Not reported
Fax Number: Not reported
Modified By: ACDANIEL
Date Last Modified: 2018-07-12

Site Id: 4841
Affiliation Type: Emergency Contact
Company Name: 1468 BRYANT REALTY LLC
Contact Type: Not reported
Contact Name: ISMAEL AYALA
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (917) 773-2367
EMail: Not reported
Fax Number: Not reported
Modified By: ACDANIEL
Date Last Modified: 2018-07-12

Site Id: 4841
Affiliation Type: Facility Owner
Company Name: 1468 BRYANT REALTY LLC
Contact Type: PROPERTY MANAGER
Contact Name: ANNIE VACA
Address1: 11 AVENUE F
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11218
Country Code: 001
Phone: (718) 879-8272
EMail: ANNIE@CYAMGMT.COM
Fax Number: Not reported
Modified By: ACDANIEL
Date Last Modified: 2018-07-12

Tank Info:

Tank Number: 001
Tank Id: 19588
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

C01 - Pipe Location - Aboveground
J02 - Dispenser - Suction Dispenser
K99 - Spill Prevention - Other
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

1468 BRYANT REALTY LLC (Continued) **A100175051**

E02 - Piping Secondary Containment - Vault (with Access)
F00 - Pipe External Protection - None
D08 - Pipe Type - Equivalent Technology
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
G02 - Tank Secondary Containment - Vault (w/access)
I05 - Overfill - Vent Whistle

Tank Location:	3
Tank Type:	Other
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	06/01/1976
Capacity Gallons:	2200
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	ACDANIEL
Last Modified:	07/12/2018
Material Name:	#2 fuel oil (on-site consumption)

Z136 **1528 BRYANT AVENUE** **NY AST** **A100294023**
NW **1528 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.158 mi.
836 ft. **Site 1 of 2 in cluster Z**

Relative:
Higher

Actual:
60 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-607961
Program Type:	PBS
UTM X:	593849.84984
UTM Y:	4520852.93833
Expiration Date:	N/A
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	29813
Affiliation Type:	Mail Contact
Company Name:	RELIANT REALTY SERVICES, INC.
Contact Type:	Not reported
Contact Name:	AHMED TAYLOR
Address1:	885 SECOND AVENUE
Address2:	31ST FLOOR
City:	NEW YORK
State:	NY
Zip Code:	10017
Country Code:	001
Phone:	(646) 502-0072
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	2012-07-02

Site Id:	29813

1528 BRYANT AVENUE (Continued) **A100294023**

Affiliation Type:	Facility Operator
Company Name:	1528 BRYANT AVENUE
Contact Type:	Not reported
Contact Name:	EDWIN RAMOS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 846-1326
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	2012-07-02

Site Id:	29813
Affiliation Type:	Emergency Contact
Company Name:	OLR LBCE, LP
Contact Type:	Not reported
Contact Name:	AHMED TAYLOR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(800) 784-0156
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-10-03

Site Id:	29813
Affiliation Type:	Facility Owner
Company Name:	OLR LBCE, LP
Contact Type:	AGENT
Contact Name:	OLR LBCE, LP
Address1:	885 SECOND AVENUE, 31ST FLOOR
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10017
Country Code:	001
Phone:	(646) 502-7200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	2012-07-02

Tank Info:

Tank Number:	001
Tank Id:	63974
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

1528 BRYANT AVENUE (Continued) **A100294023**

Equipment Records:

E00 - Piping Secondary Containment - None
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction Dispenser

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/2000
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	05/23/2012
Register:	True
Modified By:	MSBAPTIS
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

V137 **ABALON PRECISION MFG. CORP.** **NY LTANKS** **S117269710**
SW **1174 LONGFELLOW AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.160 mi.
847 ft. **Site 2 of 7 in cluster V**

Relative: **Higher**
Actual: **52 ft.**

LTANKS:

Facility ID:	1405324
Site ID:	498747
Closed Date:	2014-09-23
Spill Number:	1405324
Spill Date:	2014-08-15
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	D4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2014-08-15
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2014-08-15

ABALON PRECISION MFG. CORP. (Continued) **S117269710**

Spill Record Last Update:	2014-09-23
Spiller Name:	NORMAN ORENT
Spiller Company:	ABALON PRECISION MFG. CORP.
Spiller Address:	1040 HOME STREET
Spiller County:	999
Spiller Contact:	RAPID WASTE DISPOSAL
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	453710
DEC Memo:	"Obligado - I called the Fred and left message to call back the DEC. From PBS, the facility is ABALON PRECISION MFG. CORP. PBS #2-605331 Contact: Norman Orent Abalon Precision MFG Corp 1040 Home Street Bronx, NY 10459 Norman Orent (718) 589-5682 abalonbx@aol.com I tried calling Mr. Orent as well but he was not available. I left the duty desk number with the secretary and emailed the TTF letter to Mr. Orent, cc to Ryan Piper. I received a call back from Mr. Orent. He said that they are planning to remove the tank and their environmental company will be in touch with the DEC.'"
Remarks:	"2000 gal ust"

All Materials:

Site ID:	498747
Operable Unit ID:	1248188
Operable Unit:	01
Material ID:	2249585
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

Y138 **CON EDISON** **NY MANIFEST** **S117066260**
West **1456 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.162 mi.
857 ft. **Site 2 of 11 in cluster Y**

Relative:
Higher

Actual:
54 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004588950
Facility Status:	Not reported
Location Address 1:	1456 BRYANT AVE
Code:	BP
Location Address 2:	SB 1154
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004588950
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING

CON EDISON (Continued) **S117066260**

Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/08/2014
Trans1 Recv Date:	07/08/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/09/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004588950
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503509GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	150
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

CON EDISON (Continued) **S117066260**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AA139 **1226 EVERGREEN LLC** **NY AST** **A100175566**
SE **1226 EVERGREEN AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.164 mi.
867 ft. **Site 1 of 6 in cluster AA**

Relative:
Higher

Actual:
26 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-605289
Program Type:	PBS
UTM X:	594342.52978
UTM Y:	4520416.42215
Expiration Date:	09/04/2018
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	27158
Affiliation Type:	Mail Contact
Company Name:	1226 EVERGREEN LLC
Contact Type:	PRES
Contact Name:	MICHAEL CHOOKASEZIAN
Address1:	PO BOX 408
Address2:	Not reported
City:	OCEANSIDE
State:	NY
Zip Code:	11572
Country Code:	001
Phone:	(516) 594-8106
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2013-07-22

Site Id:	27158
Affiliation Type:	Facility Operator
Company Name:	1226 EVERGREEN LLC
Contact Type:	Not reported
Contact Name:	ANGEL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 594-8146
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2008-09-04

Site Id:	27158
Affiliation Type:	Emergency Contact
Company Name:	1226 EVERGREEN LLC

1226 EVERGREEN LLC (Continued) **A100175566**

Contact Type:	Not reported
Contact Name:	MICHAEL CHOOKASEZIAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(516) 852-6753
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	2013-07-24

Site Id:	27158
Affiliation Type:	Facility Owner
Company Name:	1226 EVERGREEN LLC
Contact Type:	PRES
Contact Name:	MICHAEL CHOOKASEZIAN
Address1:	PO BOX 408
Address2:	Not reported
City:	OCEANSIDE
State:	NY
Zip Code:	11572
Country Code:	001
Phone:	(516) 594-8106
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2013-07-22

Tank Info:

Tank Number:	001
Tank Id:	59681
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
B03 - Tank External Protection - Original Impressed Current
K00 - Spill Prevention - None
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
L09 - Piping Leak Detection - Exempt Suction Piping
G03 - Tank Secondary Containment - Vault (w/o access)
J02 - Dispenser - Suction Dispenser

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported

1226 EVERGREEN LLC (Continued) **A100175566**

Install Date:	01/01/1974
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KAKYER
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

W140 **CON EDISON** **NY MANIFEST** **S117737867**
North **1661 BOONE AVENUE F/O** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.169 mi.
891 ft. **Site 5 of 12 in cluster W**

Relative:
Higher

Actual:
34 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004685558
Facility Status:	Not reported
Location Address 1:	1661 BOONE AVENUE F/O
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004685558
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	10/28/2014
Trans1 Recv Date:	10/28/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/03/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004685558
Trans1 EPA ID:	Not reported

CON EDISON (Continued) **S117737867**

Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002564554GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

W141 **JOSE R. LOPEZ DBA/ JOSE AUTO REPAIRS** **NY AST** **A100364835**
North **1661 BOONE AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.169 mi.
891 ft. **Site 6 of 12 in cluster W**

Relative: **Higher**
Actual: **34 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-611932
Program Type:	PBS
UTM X:	594056.55731
UTM Y:	4520959.77401
Expiration Date:	12/26/2017
Site Type:	Auto Service/Repair (No Gasoline Sales)

Affiliation Records:

Site Id:	476584
Affiliation Type:	Facility Owner

JOSE R. LOPEZ DBA/ JOSE AUTO REPAIRS (Continued) **A100364835**

Company Name:	JOSE R. LOPEZ
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	449 AUDUBON AVE.
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10040
Country Code:	001
Phone:	(646) 302-1929
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-12-26

Site Id:	476584
Affiliation Type:	Mail Contact
Company Name:	JOSE AUTO REPAIR
Contact Type:	Not reported
Contact Name:	JOSE R. LOPEZ
Address1:	1661 BOONE AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(718) 842-3330
EMail:	NONE
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-12-26

Site Id:	476584
Affiliation Type:	Facility Operator
Company Name:	JOSE R. LOPEZ DBA/ JOSE AUTO REPAIRS
Contact Type:	Not reported
Contact Name:	JOSE R. LOPEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 842-3330
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-12-11

Site Id:	476584
Affiliation Type:	Emergency Contact
Company Name:	JOSE R. LOPEZ
Contact Type:	Not reported
Contact Name:	JOSE R. LOPEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported

JOSE R. LOPEZ DBA/ JOSE AUTO REPAIRS (Continued) **A100364835**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(646) 302-1929
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-12-11

Tank Info:

Tank Number:	169
Tank Id:	246577
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
J02 - Dispenser - Suction Dispenser
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
A01 - Tank Internal Protection - Epoxy Liner
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	10/20/2010
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

V142 **APARTMENT BUILDING** **NY LTANKS** **S107782552**
SSW **1275 WESTCHESTER AVENUE** **N/A**
1/8-1/4 **BRONX, NY**
0.169 mi.
893 ft. **Site 3 of 7 in cluster V**

Relative: **Higher**
Actual: **45 ft.**

LTANKS:

Facility ID:	8905394
Site ID:	129512
Closed Date:	2006-11-02
Spill Number:	8905394
Spill Date:	1989-08-31
Spill Cause:	Tank Failure

APARTMENT BUILDING (Continued) **S107782552**

Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	rvketani
Referred To:	Not reported
Reported to Dept:	1989-08-31
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	DEC
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1989-09-06
Spill Record Last Update:	2007-01-08
Spiller Name:	ASST. COMMISSIONER/DPM
Spiller Company:	NYC/HPD/DPM
Spiller Address:	100 GOLD ST #6Z1
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	111634
DEC Memo:	"7/27/05 - Transferred for closure review to M Johnson. 6/15/06 - Transferred for closure review to T Knizek. 9/7/06 - Austin - Assigned from Albany to Region 2 staff (Ketani) for review and closure - end 11/1/06 - Raphael Ketani. Site is an apartment building. There was a tank failure. Tanks-A-Lot was pumping out a mix of asbestos and oil from a pit. The site is block/lot 02758/0036. The site is owned by the Human Resources Administration, 250 Church Street, New York, 10013-3429. The agency involved was DPM/HPD, 100 Gold Street, #6Z1, New York, 10038. Assistant Commissioner of DPM was at (212) 863-7087. I called up the 7087 number, but the person answering the phone said that the building was not in the HPD database. I called up Tanks A Lot from the Bronx (718) 387-8300/927-0350. I spoke to a woman who answered the phone and explained that I needed information on this old spill. She said she wasn't sure there were any records, but she will take a look. I called up Mr. Edwin Lugo of DPM at Gold Street (212) 863-7312. I could only leave a voice mail. 11/2/06 - Raphael Ketani. I made an unannounced site visit. I went to the entrance to 1275 Westchester Avenue and was met by heavy security. I was told that the building is an HRA building and to wait outside. Women, some with babies and young children, were coming and going from the building. I was directed to a side entrance at 1138 Longfellow Avenue. Heavy security met me there. I met the super of HRA Adult Institutions, Mr. Hollis. He showed me the boiler room, the first electrical room, and the second electrical room. Each room was absolutely dry and clean with a solid concrete floor that did not have cracks and was painted. No vapors were detected with the PID in the boiler room and the first electrical room. However, the second electrical room had about 70 ppb of vapors. What these vapors were I could not tell as there were no odors. Also, this room had a side room or large niche where an oil tank might have once been kept. Mr. Hollis told me the building was

APARTMENT BUILDING (Continued) **S107782552**

converted to gas a long time ago. I brought this spill case to the attention of Randall Austin, Chief Spills Engineer Region 2. He told me that I can close this case. Based upon the lack of impirical or incidental evidence of a spill, the lack of direct evidence that a spill event took place, the lack of any personnel who were present at the time of the spill from the apartment building or the cleanup company, the lack of any papers documenting the spill, I am closing the case. 1/8/07 - Raphael Ketani. I received a call from Naim (na-eem) Brown of the CPC (Community Preservation Corporation). He asked whether the spill had been closed. I told him it had. He asked that I send him an NFA letter. I told him I would. The letter went out today to Mr. Brown at the CPC, 31-54 Albany Crescent, Bronx, 10463. "

Remarks: "TANKS-A-LOT IS PUMPING OUT OIL MIXED WITH ASBESTOS FROM 1275 WESTCHESTER AVENUE, PUMPING OIL FROM PIT."

All Materials:

Site ID:	129512
Operable Unit ID:	933026
Operable Unit:	01
Material ID:	445826
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

V143 **NEW DAY I** **NY AST** **S102141966**
SSW **1275 WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.169 mi.
893 ft. **Site 4 of 7 in cluster V**

Relative: Higher
Actual: 45 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-477443
Program Type:	PBS
UTM X:	593853.66514
UTM Y:	4520174.16671
Expiration Date:	N/A
Site Type:	Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)

Affiliation Records:

Site Id:	21176
Affiliation Type:	Facility Owner
Company Name:	NYC HUMAN RESOURCES ADMINISTRATION
Contact Type:	SUPERINTENDENT OF ADULT INSTITUTE
Contact Name:	LAWRENCE HOLLINGS
Address1:	180 WATER STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038

NEW DAY I (Continued) **S102141966**

Country Code:	001
Phone:	(212) 247-6400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2011-12-12

Site Id:	21176
Affiliation Type:	Mail Contact
Company Name:	NYC HUMAN RESOURCES ADMINISTRATION - ODVEIS
Contact Type:	Not reported
Contact Name:	MR. LAWRENCE HOLLINGS
Address1:	180 WATER STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(718) 617-8758
EMail:	HOLLINGSL@HRA.NYC.GOV
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2011-12-12

Site Id:	21176
Affiliation Type:	Facility Operator
Company Name:	NEW DAY I
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 617-8750
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2011-12-12

Site Id:	21176
Affiliation Type:	Emergency Contact
Company Name:	NYC HUMAN RESOURCES ADMINISTRATION
Contact Type:	Not reported
Contact Name:	LAWRENCE HOLLINGS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 617-8758
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2011-12-12

NEW DAY I (Continued) **S102141966**

Tank Info:

Tank Number:	001
Tank Id:	41041
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
F00 - Pipe External Protection - None
I05 - Overfill - Vent Whistle

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	6000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	02/24/1989
Register:	True
Modified By:	CGFREEDM
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

W144 **ADHESIVE PRODUCTS** **NY UST** **U001841578**
North **1660-1668 BOONE AVENUE** **NY CBS UST** **N/A**
1/8-1/4 **BRONX, NY 10400** **NY CBS**
0.171 mi.
904 ft. **Site 7 of 12 in cluster W**

Relative:
Higher

Actual:
31 ft.

UST:

Id/Status:	2-600688 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	594069.20768
UTM Y:	4520964.09109
Site Type:	Manufacturing (Other than Chemical)/Processing

Affiliation Records:

Site Id:	22668
Affiliation Type:	Facility Owner
Company Name:	MAURY & CATHLEEN MEDWICK,TRUSTEE
Contact Type:	Not reported
Contact Name:	Not reported

ADHESIVE PRODUCTS (Continued) **U001841578**

Address1:	MOSEMAN AVE,RD #2 MAPLE SHADE FARM
Address2:	Not reported
City:	KATONAH
State:	NY
Zip Code:	10536
Country Code:	001
Phone:	(914) 962-4362
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	22668
Affiliation Type:	Mail Contact
Company Name:	ENSI, INC.
Contact Type:	Not reported
Contact Name:	FRED VIRRAZZI
Address1:	194 AVENUE L
Address2:	Not reported
City:	NEWARK
State:	NJ
Zip Code:	07105
Country Code:	001
Phone:	(201) 589-0900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	22668
Affiliation Type:	Facility Operator
Company Name:	ADHESIVE PRODUCTS
Contact Type:	Not reported
Contact Name:	JEFF SILBERMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 366-4100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	22668
Affiliation Type:	Emergency Contact
Company Name:	MAURY & CATHLEEN MEDWICK,TRUSTEE
Contact Type:	Not reported
Contact Name:	JEFF SILBERMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001

ADHESIVE PRODUCTS (Continued) **U001841578**

Phone:	(212) 366-4100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	09
Tank ID:	43293
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	03/01/1942
Date Tank Closed:	04/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping

Tank Number:	10
Tank ID:	43294
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	03/01/1942
Date Tank Closed:	04/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported

ADHESIVE PRODUCTS (Continued) **U001841578**

Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
D00 - Pipe Type - No Piping

Tank Number: 19
Tank ID: 43295
Tank Status: Temporarily Out of Service
Material Name: Temporarily Out of Service
Capacity Gallons: 275
Install Date: 03/01/1942
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
D00 - Pipe Type - No Piping

Tank Number: 20
Tank ID: 43296
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 275
Install Date: 03/01/1942
Date Tank Closed: 04/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009

ADHESIVE PRODUCTS (Continued) **U001841578**

Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
I00 - Overfill - None
D00 - Pipe Type - No Piping

Tank Number: 27
Tank ID: 43297
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 5000
Install Date: 03/01/1942
Date Tank Closed: 04/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
D00 - Pipe Type - No Piping

Tank Number: 28
Tank ID: 43298
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550

ADHESIVE PRODUCTS (Continued) **U001841578**

Install Date:	03/01/1942
Date Tank Closed:	04/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping

Tank Number:	29
Tank ID:	43299
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	275
Install Date:	03/01/1942
Date Tank Closed:	04/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
D00 - Pipe Type - No Piping

ADHESIVE PRODUCTS (Continued) **U001841578**

CBS UST:

Detail As of 1/1/2012:

Id/Status:	2-000246 / CLOSED IN PLACE
Facility Type:	MANUFACTURING
Facility Tel:	(212) 366-4100
Total Tanks:	0
Region:	STATE
ICS No:	Not reported
PBS No:	Not reported
MOSF No:	Not reported
SPDES No:	Not reported
Town:	NEW YORK CITY
Operator:	JEFF SILBERMANN
Emergency Contact:	JEFF SILBERMANN
Emergency Contact Phone:	(212) 366-4100
Certification Date:	03/31/1992
Expiration Date:	03/31/1994
Owner Name:	TRUST(CLAUSE FOURTH) LUCILLE MEDWICK S/B/O MAURY M
Owner Address:	MOSEMAN AVE., RD 2 MAPLE SHADE FARM
Owner City,St,Zip:	KATONAH, NY 10536
Owner Phone:	(914) 962-4362
Owner Type:	5
Owner Subtype:	Not reported
Mail To Name:	ENSI, INC.
Mail To Contact:	FRED VIRRAZZI
Mail To Address:	194 AVENUE L
Mail To Address 2:	Not reported
Mail To City,St,Zip:	NEWARK, NJ 07165
Mail To Telephone:	(201) 589-0900

Tank Number:	02
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Ethyl acetate
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	141786
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	12:59:29
Last Test:	Not reported

ADHESIVE PRODUCTS (Continued) **U001841578**

Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	06
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Methyl ethyl ketone
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	78933
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:00:24
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False

ADHESIVE PRODUCTS (Continued) **U001841578**

Reserve Flag:	False

Tank Number:	14
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:01:21
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	16
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground

ADHESIVE PRODUCTS (Continued) **U001841578**

Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:01:45
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	18
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:02:30

ADHESIVE PRODUCTS (Continued) **U001841578**

Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	22
Date Entered:	03/17/1992
Capacity:	1500
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:03:06
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True

ADHESIVE PRODUCTS (Continued) **U001841578**

Pipe Flag:	False
Reserve Flag:	False

Tank Number:	24
Date Entered:	03/17/1992
Capacity:	1500
Chemical:	2-Propanone
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	67641
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:04:06
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	26
Date Entered:	03/17/1992
Capacity:	1500
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List

ADHESIVE PRODUCTS (Continued) **U001841578**

Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:05:00
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

CBS:

CBS Number:	2-000246
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	594067.72547
UTMY:	4520954.86757

W145 **ADHESIVE PRODUCTS CORP** **NY Spills** **1000222173**
North **1660-1684 BOONE AVE** **RCRA NonGen / NLR** **NYD001360031**
1/8-1/4 **NEW YORK, NY 10460** **NY MANIFEST**
0.171 mi.
904 ft. **Site 8 of 12 in cluster W**

Relative:
Higher

Actual:
31 ft.

SPILLS:

Facility ID:	9203740
Facility Type:	ER
Spill Number:	9203740
DER Facility ID:	180040
Site ID:	217467
DEC Region:	2
Closed Date:	2001-03-21
Spill Cause:	Housekeeping
Spill Class:	C3

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

SWIS:	0301
Spill Date:	1992-06-09
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	1992-06-30
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-07-08
Spill Record Last Update:	2002-05-09
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"7.0 PPB-7.2 PPB; TPH, TOLUENE. FORMER ADHESIVES PRODUCT CORP. ONGOING CLEANUP . NYCDEP INVOLVED."

All Materials:

Site ID:	217467
Operable Unit ID:	967543
Operable Unit:	01
Material ID:	411518
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	ADHESIVE PRODUCTS CORP
Facility address:	1660-1684 BOONE AVE NEW YORK, NY 10460
EPA ID:	NYD001360031
Mailing address:	BOONE AVE NEW YORK, NY 10460
Contact:	Not reported
Contact address:	BOONE AVE NEW YORK, NY 10460
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Private

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ART 4TH TRUST LUCILLE MEDWICK
Owner/operator address: 435 W 23RD ST
NEW YORK, NY 10011
Owner/operator country: US
Owner/operator telephone: 212-366-4100
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: ART 4TH TRUST LUCILLE MEDWICK
Owner/operator address: 435 W 23RD ST
NEW YORK, NY 10011
Owner/operator country: US
Owner/operator telephone: 212-366-4100
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: ADHESIVE PRODUCTS CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: ADHESIVE PRODUCTS CORP
Classification: Not a generator, verified

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Date form received by agency: 08/04/1992
Site name: ADHESIVE PRODUCTS CORP
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 04/30/1993
Date achieved compliance: 11/01/1993
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/01/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 04/30/1993
Date achieved compliance: 11/01/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 08/04/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 1200
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/10/1992
Date achieved compliance: 08/22/1993
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/28/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 74850
Final penalty amount: Not reported
Paid penalty amount: Not reported

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/10/1992
Date achieved compliance: 08/22/1993
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/22/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 1000
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/22/1993
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/30/1993
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 11/01/1993
Evaluation lead agency: State

Evaluation date: 04/10/1992
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/10/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/22/1993
Evaluation lead agency: EPA

NY MANIFEST:
Country: USA
EPA ID: NYD001360031
Facility Status: Not reported
Location Address 1: 1660 BOONE AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD001360031
Mailing Name: ADHESIVE PRODUCTS
Mailing Contact: N/S
Mailing Address 1: 435 N 23RD ST-STE 1B
Mailing Address 2: Not reported

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10011
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2123664100

NY MANIFEST:

Document ID:	NYB4335723
Manifest Status:	K
seq:	Not reported
Year:	1992
Trans1 State ID:	10210PNY
Trans2 State ID:	Not reported
Generator Ship Date:	11/19/1992
Trans1 Recv Date:	11/19/1992
Trans2 Recv Date:	/ /
TSD Site Recv Date:	11/23/1992
Part A Recv Date:	12/01/1992
Part B Recv Date:	12/14/1992
Generator EPA ID:	NYD001360031
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD057770109
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	U223 - TOLUENE DIISOCYANATE
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	U044 - CHLOROFORM
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00020
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AB146 **CON EDISON** **NY MANIFEST** **S117538195**
ESE **E 172 ST & WHEELER AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.171 mi.
904 ft. **Site 1 of 7 in cluster AB**

Relative:
Higher

Actual:
36 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004708434
Facility Status:	Not reported
Location Address 1:	E 172 ST & WHEELER AV
Code:	BP
Location Address 2:	TM58
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004708434
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003

CON EDISON (Continued) **S117538195**

Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	12/18/2014
Trans1 Recv Date:	12/18/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004708434
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	001084672GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AB147 **NYNEX** **NY MANIFEST** **1009233942**
ESE **172ND ST & WHEELER AVE** **N/A**
1/8-1/4 **BRONX, NY 11201**
0.171 mi.
904 ft. **Site 2 of 7 in cluster AB**

Relative:
Higher

Actual:
36 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP000923318
Facility Status:	Not reported
Location Address 1:	172ND ST & WHEELER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	11201
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP000923318
Mailing Name:	NYNEX
Mailing Contact:	SUSHMITA BISWAS
Mailing Address 1:	221 EAST 37TH ST
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10016
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2123387126

NY MANIFEST:

Document ID:	MIA4134011
Manifest Status:	K
seq:	Not reported
Year:	1996
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	01/25/1996
Trans1 Recv Date:	01/25/1996
Trans2 Recv Date:	01/25/1996
TSD Site Recv Date:	02/12/1996
Part A Recv Date:	/ /
Part B Recv Date:	02/26/1996
Generator EPA ID:	NYP000923318
Trans1 EPA ID:	NYD010951986
Trans2 EPA ID:	NYD046765574
TSDF ID 1:	MID096963194
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported

NYNEX (Continued) **1009233942**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00300
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

V148 **SPILL NUMBER 0302371** **NY LTANKS** **S105999142**
SW **1150 LONGFELLOW AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.172 mi.
908 ft. **Site 5 of 7 in cluster V**

Relative: LTANKS:
Higher

Actual:
52 ft.

Facility ID:	0302371
Site ID:	126054
Closed Date:	2003-06-10
Spill Number:	0302371
Spill Date:	2003-06-05
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	JXZHAO
Referred To:	Not reported
Reported to Dept:	2003-06-05
CID:	199
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2003-06-05
Spill Record Last Update:	2003-06-10
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	DANIEL SILVESTRO
Spiller Phone:	(718) 893-4400
Spiller Extention:	Not reported
DEC Region:	2

SPILL NUMBER 0302371 (Continued) **S105999142**

DER Facility ID: 109012
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHAO Sangesland DDO Owner: Krish Ramnaraine 646-638-6051 Minor spill to driveway - no soil involved. Closed"
Remarks: "OWNER CALLED FOR 100 GAL TO BE DELIVERED AND PAID FOR 100 GAL BY CREDIT CARD - WHEN DRIVER MADE DELIVERY AFTER 47 GAL TANK WAS FILLED -- CREW ENROUTE FOR CLEAN UP "

All Materials:
Site ID: 126054
Operable Unit ID: 869208
Operable Unit: 01
Material ID: 571418
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 3.00
Units: G
Recovered: .00
Oxygenate: Not reported

AB149 **GARCIA RESIDENCE** **NY LTANKS** **S106868988**
East **1316 WHEELER AVENUE** **N/A**
1/8-1/4 **NEW YORK, NY**
0.173 mi.
912 ft. **Site 3 of 7 in cluster AB**

Relative: **Higher**
Actual: **41 ft.**

LTANKS:
Facility ID: 0413444
Site ID: 342581
Closed Date: 2005-05-27
Spill Number: 0413444
Spill Date: 2005-03-26
Spill Cause: Tank Failure
Spill Source: Private Dwelling
Spill Class: Not reported
Cleanup Ceased: Not reported
SWIS: 0301
Investigator: SFRAHMAN
Referred To: Not reported
Reported to Dept: 2005-03-26
CID: 72
Water Affected: Not reported
Spill Notifier: Citizen
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2005-03-28
Spill Record Last Update: 2005-05-27
Spiller Name: MRS. GARCIA
Spiller Company: GARCIA RESIDENCE
Spiller Address: 1316 WHEELER AVENUE
Spiller County: 001
Spiller Contact: MRS. GARCIA

GARCIA RESIDENCE (Continued) **S106868988**

Spiller Phone:	(718) 861-4158
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	288930
DEC Memo:	"3/29/05-Vought-Spill contained before hitting concrete. No sewers or drains affected. Vought called Correa for status of tank repair and she called USA Tanks. Proposal sent to owner for tank replacement by USA Tank. Vought called Garcia and to leave message that for spill to be closed, copy of invoice must be received for AST replacement. Stuyvesant Fuel Oil will no longer make deliveries until AST is repaired. No answer of phone. Spill referred to DEC Rahman to send out letter requiring invoice of repair or replace. 03/29/05-SR// Sent a leaking tank repair letter. 04/18/05-SR//No reply received from the home owner. No body picks up the phone. USA tanks also unable to hold the owner. So, they sent a proposal for the repair work via mail. Need site inspection. 04/18/05-SR// Visited the site.Homwowner was not available and could not access the basement. 04/19/05-SR//After a series of attempt, homeowner Ms. Juan Garcia(718-861-4158) was found on the phone this evening. She informed about the possible repair work to be done by this week. "
Remarks:	"Homeowner noticed fuel oil leaking under 275 gallon oil tank in basement. Bucket was placed to catch spill. USA Tanks on scene, and will handle. No oil spilled onto basement floor. 1/2 gallon oil is in bucket."

All Materials:

Site ID:	342581
Operable Unit ID:	1101305
Operable Unit:	01
Material ID:	581453
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

150
WSW
1/8-1/4
0.175 mi.
922 ft.

CON EDISON
1432 BRYANT AVE
BRONX, NY 10459

NY MANIFEST **S117066261**
N/A

Relative:
Higher

Actual:
61 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004588968
Facility Status:	Not reported
Location Address 1:	1432 BRYANT AVE
Code:	BP
Location Address 2:	SB 1143
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

CON EDISON (Continued) **S117066261**

NY MANIFEST:

EPAID:	NYP004588968
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/08/2014
Trans1 Recv Date:	07/08/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/09/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004588968
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503514GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008

CON EDISON (Continued) **S117066261**

Waste Code 1_2: Not reported
Waste Code 1_3: Not reported
Waste Code 1_4: Not reported
Waste Code 1_5: Not reported
Waste Code 1_6: Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AC151 **COLGATE DRY CLEANERS** **FINDS** **1007768732**
SSE **1170 COLGATE AVE** **NY DRYCLEANERS** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.176 mi.
931 ft. **Site 1 of 9 in cluster AC**

Relative: Higher
Actual: 21 ft.

FINDS:

Registry ID: 110019311662

Environmental Interest/Information System
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Click this hyperlink while viewing on your computer to access
additional FINDS: detail in the EDR Site Report.

DRYCLEANERS:
Facility ID: 2-6007-00787
Phone Number: (718)620-6616
Region: Not reported
Registration Effective Date: 8/17/2004
Inspection Date: 11AUG16
Install Date: 04/11
Drop Shop: Y
Shutdown: Not reported
Alternate Solvent: Not reported
Current Business: Not reported

W152 **CON EDISION** **NY MANIFEST** **S117066606**
North **1674 BOONE AV** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.177 mi.
933 ft. **Site 9 of 12 in cluster W**

Relative: Higher
Actual: 32 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004592804
Facility Status: Not reported
Location Address 1: 1674 BOONE AV
Code: BP
Location Address 2: SB25112
Total Tanks: Not reported
Location City: BRONX

CON EDISION (Continued) **S117066606**

Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004592804
Mailing Name: CON EDISION
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL
Mailing Address 2: 15TH FL
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 07/10/2014
Trans1 Recv Date: 07/10/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/11/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004592804
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NJD991291105
TSDF ID 2: Not reported
Manifest Tracking Number: 002503562GBF
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N
Discr Type Indicator: N
Discr Residue Indicator: N
Discr Partial Reject Indicator: N
Discr Full Reject Indicator: N
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: H110
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 1000
Units: P - Pounds
Number of Containers: 1
Container Type: TT - Cargo tank, tank trucks

CON EDISION (Continued) **S117066606**

Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

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-1 additional NY MANIFEST: record(s) in the EDR Site Report.

153
NNE
1/8-1/4
0.177 mi.
933 ft.

CON EDISON **NY MANIFEST** **S117314206**
1715 WEST FARM RD **N/A**
BRONX, NY 10460

Relative:
Higher

Actual:
17 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004612487
Facility Status:	Not reported
Location Address 1:	1715 WEST FARM RD
Code:	BP
Location Address 2:	SB 22969
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004612487
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

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-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AD154 **BLUEBIRD REALTY COMPANY** **NY AST** **U003388188**
SW **1182 WEST FARMS ROAD** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.177 mi.
935 ft. **Site 1 of 3 in cluster AD**

Relative:
Higher

Actual:
58 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-259985
Program Type:	PBS
UTM X:	593737.46900
UTM Y:	4520313.43346
Expiration Date:	08/29/2023
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	10835
Affiliation Type:	Mail Contact
Company Name:	% MAH PROPERTIES CORP
Contact Type:	Not reported
Contact Name:	BLUEBIRD REALTY CO
Address1:	212-12 33RD ROAD
Address2:	Not reported
City:	BAYSIDE
State:	NY
Zip Code:	11361
Country Code:	001
Phone:	(646) 641-6310
EMail:	OLEGK@VERIZON.NET
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-10

Site Id:	10835
Affiliation Type:	Facility Operator
Company Name:	BLUEBIRD REALTY COMPANY
Contact Type:	Not reported
Contact Name:	LUIS VELAUGUEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 617-4836
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	10835
Affiliation Type:	Emergency Contact
Company Name:	MAH PROPERTIES CORP
Contact Type:	Not reported
Contact Name:	BORIS KOBYLEVSKY
Address1:	Not reported
Address2:	Not reported
City:	Not reported

BLUEBIRD REALTY COMPANY (Continued) **U003388188**

State: NN
Zip Code: Not reported
Country Code: 999
Phone: (646) 641-6310
EMail: Not reported
Fax Number: Not reported
Modified By: DMMOLOUG
Date Last Modified: 2013-08-06

Site Id: 10835
Affiliation Type: Facility Owner
Company Name: MAH PROPERTIES CORP
Contact Type: PRESIDENT
Contact Name: OLEG KOBYLEVSKY
Address1: 212-12 33RD ROAD
Address2: Not reported
City: BAYSIDE
State: NY
Zip Code: 11361
Country Code: 001
Phone: (646) 641-6310
EMail: Not reported
Fax Number: Not reported
Modified By: ACDANIEL
Date Last Modified: 2018-07-10

Tank Info:

Tank Number: 001
Tank Id: 13331
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
B05 - Tank External Protection - Jacketed
C03 - Pipe Location - Aboveground/Underground Combination
F06 - Pipe External Protection - Wrapped
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 07/01/1987
Capacity Gallons: 2000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True

BLUEBIRD REALTY COMPANY (Continued) **U003388188**

Modified By: DMMOLOUG
Last Modified: 04/14/2017
Material Name: #2 fuel oil (on-site consumption)

AE155 **CON EDISON** **NY MANIFEST** **S117319574**
SSW **1278 WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.177 mi.
937 ft. **Site 1 of 3 in cluster AE**

Relative:
Higher

Actual:
41 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004676391
Facility Status: Not reported
Location Address 1: 1278 WESTCHESTER AVE
Code: BP
Location Address 2: SB 25793
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10459
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004676391
Mailing Name: CON EDISON
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL 15TH FL
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124603770

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJD003812047
Trans2 State ID: NJD003812047
Generator Ship Date: 10/10/2014
Trans1 Recv Date: 10/10/2014
Trans2 Recv Date: 10/16/2014
TSD Site Recv Date: 10/16/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004676391
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NJD991291105
TSDF ID 2: Not reported
Manifest Tracking Number: 002564401GBF
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N

CON EDISON (Continued) **S117319574**

Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AA156 **CON EDISON** **NY MANIFEST** **S117064319**
SE **1214 EVERGREEN AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.179 mi.
943 ft. **Site 2 of 6 in cluster AA**

Relative:
Higher

Actual:
26 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004567970
Facility Status:	Not reported
Location Address 1:	1215 EVERGREEN AVE
Code:	BP
Location Address 2:	SB 21171
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004567970
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY

CON EDISON (Continued) **S117064319**

Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	06/17/2014
Trans1 Recv Date:	06/17/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/20/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004567970
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	013255247JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

CON EDISON (Continued) **S117064319**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AA157 **CON EDISON SERVICE BOX: 21171** **RCRA NonGen / NLR** **1017778842**
SE **1214 EVERGREEN AVE** **FINDS** **NYP004567970**
1/8-1/4 **BRONX, NY 10460**
0.179 mi.
943 ft. **Site 3 of 6 in cluster AA**

Relative:
Higher

Actual:
26 ft.

RCRA NonGen / NLR:

Date form received by agency:	07/17/2014
Facility name:	CON EDISON SERVICE BOX: 21171
Facility address:	1214 EVERGREEN AVE BRONX, NY 10460
EPA ID:	NYP004567970
Mailing address:	IRVING PL, 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	06/17/2014
Site name:	CON EDISON
Classification:	Large Quantity Generator

Date form received by agency:	06/17/2014
Site name:	CON EDISON
Classification:	Not a generator, verified

Violation Status: No violations found

FINDS:

CON EDISON SERVICE BOX: 21171 (Continued) **1017778842**

Registry ID: 110063824991

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Y158 **1455 BRYANT LLC** **NY AST** **U003389353**
West **1455 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.179 mi.
946 ft. **Site 3 of 11 in cluster Y**

Relative: **Higher**
Actual: **57 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-306460
Program Type:	PBS
UTM X:	593752.61778
UTM Y:	4520660.29278
Expiration Date:	12/17/2019
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	14044
Affiliation Type:	Mail Contact
Company Name:	1455 BRYANT LLC
Contact Type:	MANAGER
Contact Name:	JERRY MILLER
Address1:	P.O. BOX 449
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11230
Country Code:	001
Phone:	(718) 252-9173
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-02-01

Site Id:	14044
Affiliation Type:	Facility Operator
Company Name:	1455 BRYANT LLC
Contact Type:	Not reported
Contact Name:	JAIRO PENA MENA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

1455 BRYANT LLC (Continued) **U003389353**

Zip Code:	Not reported
Country Code:	999
Phone:	(347) 203-9037
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-02-01

Site Id:	14044
Affiliation Type:	Emergency Contact
Company Name:	1455 BRYANT LLC
Contact Type:	Not reported
Contact Name:	JAIRO PENA MENA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(347) 203-9037
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-02-01

Site Id:	14044
Affiliation Type:	Facility Owner
Company Name:	1455 BRYANT LLC
Contact Type:	MANAGER
Contact Name:	JERRY MILLER
Address1:	P.O. BOX 449
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11230
Country Code:	001
Phone:	(718) 252-9173
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-02-01

Tank Info:

Tank Number:	023
Tank Id:	16482
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

1455 BRYANT LLC (Continued) **U003389353**

G99 - Tank Secondary Containment - Other
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)
H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	04/09/1931
Capacity Gallons:	3000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MFLEONAR
Last Modified:	02/01/2018
Material Name:	#2 fuel oil (on-site consumption)

W159 **CON EDISON MANHOLE 17640** **RCRA NonGen / NLR** **1014918049**
NNW **LONGFELLOW AVE & E 173RD ST** **NYP004216323**
1/8-1/4 **BRONX, NY 10460**
0.180 mi.
949 ft. **Site 10 of 12 in cluster W**

Relative:
Higher

Actual:
51 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/23/2010
Facility name:	CON EDISON MANHOLE 17640
Facility address:	LONGFELLOW AVE & E 173RD ST NE COR BRONX, NY 10460
EPA ID:	NYP004216323
Mailing address:	IRVING PL RM 828 NEW YORK, NY 10003
Contact:	GINO FRABASILE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	914-925-6219
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

CON EDISON MANHOLE 17640 (Continued) **1014918049**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/23/2010
Site name: CON EDISON MANHOLE 17640
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

W160 **CON EDISON** **NY MANIFEST** **S117737514**
NNW **LONGFELLOW AV & 173 ST** **N/A**
1/8-1/4 **BRONX, NY 10463**
0.180 mi.
949 ft. **Site 11 of 12 in cluster W**

Relative:
Higher

Actual:
51 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004659819
Facility Status: Not reported
Location Address 1: LONGFELLOW AV & 173 ST
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10463
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004659819
Mailing Name: CON EDISON
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL
Mailing Address 2: 15TH FL
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJ0000027193
Trans2 State ID: Not reported
Generator Ship Date: 09/17/2014
Trans1 Recv Date: 09/17/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 09/17/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004659819
Trans1 EPA ID: Not reported

CON EDISON (Continued) **S117737514**

Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	013255738JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	4000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Z161 **CON EDISON** **NY MANIFEST** **S117066704**
NNW **1548 BRYANT AV** **N/A**
1/8-1/4 **BRONX, NY 10461**
0.180 mi.
953 ft. **Site 2 of 2 in cluster Z**

Relative: **Higher**

Actual: **60 ft.**

NY MANIFEST:

Country:	USA
EPA ID:	NYP004593901
Facility Status:	Not reported
Location Address 1:	1548 BRYANT AV
Code:	BP
Location Address 2:	SB1770
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10461
Location Zip 4:	Not reported

NY MANIFEST:

CON EDISON (Continued) **S117066704**

EPAID:	NYP004593901
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/11/2014
Trans1 Recv Date:	07/11/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004593901
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503575GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	185
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported

CON EDISON (Continued) **S117066704**

Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Y162 **CON EDISON** **NJ MANIFEST** **S120671096**
WNW **1491 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.181 mi.
956 ft. **Site 4 of 11 in cluster Y**

Relative:
Higher

Actual:
63 ft.

NJ MANIFEST:

EPA Id:	NYP004775029
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002660814GBF
EPA ID:	NYP004775029
Date Shipped:	4/27/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported

CON EDISON (Continued) **S120671096**

TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

Y163 **CON EDISON** **RCRA NonGen / NLR** **1019902543**
WNW **1491 BRYANT AVE** **FINDS** **NYP004775029**
1/8-1/4 **BRONX, NY 10460** **ECHO**
0.181 mi.
956 ft. **Site 5 of 11 in cluster Y**

Relative:
Higher

Actual:
63 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/27/2015
Facility name:	CON EDISON
Facility address:	1491 BRYANT AVE BRONX, NY 10460
EPA ID:	NYP004775029
Mailing address:	IRVING PL 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No

CON EDISON (Continued) **1019902543**

Used oil transporter: No

Historical Generators:
Date form received by agency: 04/27/2015
Site name: CON EDISON
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110069688378

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1019902543
Registry ID: 110069688378
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110069688378

Y164 **CON EDISON** **NY MANIFEST** **S119074855**
WNW **1491 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.181 mi.
956 ft. **Site 6 of 11 in cluster Y**

Relative:
Higher

Actual:
63 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004775029
Facility Status: Not reported
Location Address 1: F/O 1491 BRYANT AVE
Code: BP
Location Address 2: SB 1151
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004775029
Mailing Name: CON EDISON
Mailing Contact: DENNIS HUACON
Mailing Address 1: 4 IRVING PL 15TH FL
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003

CON EDISON (Continued) **S119074855**

Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	04/27/2015
Trans1 Recv Date:	04/27/2015
Trans2 Recv Date:	04/28/2015
TSD Site Recv Date:	04/28/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004775029
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002660814GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Y165 **CON ED** **NY MANIFEST** **S119074857**
WNW **1481 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.182 mi.
960 ft. **Site 7 of 11 in cluster Y**

Relative:
Higher

Actual:
63 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004775045
Facility Status:	Not reported
Location Address 1:	F/O 1481 BRYANT AVE
Code:	BP
Location Address 2:	SB 1150
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004775045
Mailing Name:	CON ED
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE - 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	04/27/2015
Trans1 Recv Date:	04/27/2015
Trans2 Recv Date:	04/28/2015
TSD Site Recv Date:	04/28/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004775045
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002660865GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON ED (Continued) **S119074857**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Y166 **CON EDISON** **RCRA NonGen / NLR** **1019902545**
WNW **1481 BRYANT AVE** **FINDS** **NYP004775045**
1/8-1/4 **BRONX, NY 10460** **ECHO**
0.182 mi.
960 ft. **Site 8 of 11 in cluster Y**

Relative: **Higher**
Actual: **63 ft.**

RCRA NonGen / NLR:

Date form received by agency:	04/27/2015
Facility name:	CON EDISON
Facility address:	1481 BRYANT AVE BRONX, NY 10460
EPA ID:	NYP004775045
Mailing address:	IRVING PL 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

CON EDISON (Continued) **1019902545**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 04/27/2015
Site name: CON EDISON
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110069688387

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1019902545
Registry ID: 110069688387
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110069688387

Y167 **CON EDISON** **NJ MANIFEST** **S120671097**
WNW **1481 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.182 mi.
960 ft. **Site 9 of 11 in cluster Y**

Relative: **Higher**

Actual: **63 ft.**

NJ MANIFEST:
EPA Id: NYP004775045
Mail Address: IRVING PL 15TH FL NE
Mail City/State/Zip: NEW YORK, NY 10003
Facility Phone: Not reported
Emergency Phone: Not reported
Contact: THOMAS TEELING
Comments: Not reported
SIC Code: Not reported
County: NY005
Municipal: Not reported
Previous EPA Id: Not reported
Gen Flag: Not reported

CON EDISON (Continued) **S120671097**

Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002660865GBF
EPA ID:	NYP004775045
Date Shipped:	4/27/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

V168 **LONGFELLOW HALL LLC** **NY AST** **U003383881**
SSW **1142 LONGFELLOW AVE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.182 mi.
960 ft. **Site 6 of 7 in cluster V**

Relative:
Higher

Actual:
51 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-068772
Program Type:	PBS
UTM X:	593778.51595
UTM Y:	4520208.14696
Expiration Date:	09/28/2022
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	1418
Affiliation Type:	Facility Owner
Company Name:	LONGFELLOW HALL LLC
Contact Type:	ASSISTANT TO DIRECTOR OF OPERATIONS
Contact Name:	SHARON LESTER
Address1:	1601 BRONXDALE AVE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10462
Country Code:	001
Phone:	(718) 518-8000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-04

Site Id:	1418
Affiliation Type:	Mail Contact
Company Name:	LANGSAM PROPERTY SERVICES CORP.
Contact Type:	Not reported
Contact Name:	SHARON LESTER
Address1:	1601 BRONXDALE AVENUE
Address2:	SUITE 201
City:	BRONX
State:	NY
Zip Code:	10462
Country Code:	001
Phone:	(718) 518-8000
EMail:	SHARONL@LANGSAMPROP.COM
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-05

Site Id:	1418
Affiliation Type:	Facility Operator
Company Name:	LONGFELLOW HALL LLC
Contact Type:	Not reported
Contact Name:	CARMEN PERALTA
Address1:	Not reported
Address2:	Not reported
City:	Not reported

LONGFELLOW HALL LLC (Continued) **U003383881**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 617-5551
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	2012-09-20

Site Id:	1418
Affiliation Type:	Emergency Contact
Company Name:	LONGFELLOW HALL LLC
Contact Type:	Not reported
Contact Name:	CARMEN PERALTA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 617-5551
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-04

Tank Info:

Tank Number:	001
Tank Id:	2473
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

J02 - Dispenser - Suction Dispenser
K99 - Spill Prevention - Other
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	09/24/1999
Capacity Gallons:	2000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

LONGFELLOW HALL LLC (Continued) **U003383881**

Register: True
Modified By: MFLEONAR
Last Modified: 10/04/2017
Material Name: #2 fuel oil (on-site consumption)

AF169 **MTA NYCT - 1142 BRONX RIVER AVE** **RCRA NonGen / NLR** **1004762772**
South **1142 BRONX RIVER AVE &** **FINDS** **NYR000100313**
1/8-1/4 **BRONX, NY 10459** **ECHO**
0.182 mi. **NY MANIFEST**
963 ft. **Site 1 of 3 in cluster AF**

Relative:
Higher

Actual:
18 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: MTA NYCT - 1142 BRONX RIVER AVE
Facility address: 1142 BRONX RIVER AVE &
WESTCHESTER AVE
BRONX, NY 10459
EPA ID: NYR000100313
Mailing address: BROADWAY 4TH FLOOR
NEW YORK, NY 10004
Contact: WILLIAM JEHLE
Contact address: BROADWAY 4TH FLOOR
NEW YORK, NY 10004
Contact country: US
Contact telephone: 646-252-3500
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MTA NEW YORK CITY TRANSIT
Owner/operator address: 2 BROADWAY 4TH FLOOR
NEW YORK, NY 10004
Owner/operator country: US
Owner/operator telephone: 646-252-3500
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2001
Owner/Op end date: Not reported

Owner/operator name: MTA NEW YORK CITY TRANSIT
Owner/operator address: 2 BROADWAY 4TH FLOOR
NEW YORK, NY 10004
Owner/operator country: US
Owner/operator telephone: 646-252-3500
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2001
Owner/Op end date: Not reported

MTA NYCT - 1142 BRONX RIVER AVE (Continued) **1004762772**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: MTA NYCT - 1142 BRONX RIVER AVE
Classification: Not a generator, verified

Date form received by agency: 09/05/2001
Site name: MTA NYCT - 1142 BRONX RIVER AVE
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110012237855

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004762772
Registry ID: 110012237855
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110012237855

NY MANIFEST:
Country: USA
EPA ID: NYR000100313
Facility Status: Not reported
Location Address 1: BRONX RIVER AVE
Code: BP
Location Address 2: Not reported

MTA NYCT - 1142 BRONX RIVER AVE (Continued) **1004762772**

Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000100313
Mailing Name:	NYCTA CPM ENVIRO ENGINEERING
Mailing Contact:	BRIAN NEWTON
Mailing Address 1:	2 BROADWAY 4TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10004
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	6462525000

NY MANIFEST:

Document ID:	NJA4049876
Manifest Status:	Not reported
seq:	01
Year:	2002
Trans1 State ID:	S8424
Trans2 State ID:	Not reported
Generator Ship Date:	07/23/2002
Trans1 Recv Date:	07/23/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/23/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000100313
Trans1 EPA ID:	NYD046765574
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00200
Units:	P - Pounds

MTA NYCT - 1142 BRONX RIVER AVE (Continued) **1004762772**

Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AC170 **1160 COLGATE AVENUE HDFC** **NY AST** **A100291323**
SSE **1160 COLGATE AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.183 mi.
965 ft. **Site 2 of 9 in cluster AC**

Relative:
Higher

Actual:
20 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-608817
Program Type: PBS
UTM X: 594304.84581
UTM Y: 4520255.42199
Expiration Date: 04/10/2018
Site Type: Retail Gasoline Sales

Affiliation Records:
Site Id: 30667
Affiliation Type: Facility Owner
Company Name: 1160 COLGATE AVENUE HDFC
Contact Type: PRES
Contact Name: GRACIE SAMPSON
Address1: PO BOX 897
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10451
Country Code: 001
Phone: (347) 297-7198
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 2013-05-07

Site Id: 30667
Affiliation Type: Mail Contact
Company Name: 1160 COLGATE AVE HDFC
Contact Type: Not reported
Contact Name: G SAMPSON
Address1: PO BOX 897
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10451
Country Code: 001
Phone: (347) 297-7198
EMail: Not reported
Fax Number: Not reported

1160 COLGATE AVENUE HDFC (Continued) **A100291323**

Modified By: MSBAPTIS
Date Last Modified: 2013-05-07

Site Id: 30667
Affiliation Type: Facility Operator
Company Name: 1160 COLGATE AVENUE HDFC
Contact Type: Not reported
Contact Name: G. SAMPSON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (347) 297-7198
EMail: Not reported
Fax Number: Not reported
Modified By: msbaptis
Date Last Modified: 2008-03-28

Site Id: 30667
Affiliation Type: Emergency Contact
Company Name: MANAGER L. COVINGTON
Contact Type: Not reported
Contact Name: G.SAMPSON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (347) 297-7198
EMail: Not reported
Fax Number: Not reported
Modified By: msbaptis
Date Last Modified: 2008-03-28

Tank Info:

Tank Number: 001
Tank Id: 65679
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

H99 - Tank Leak Detection - Other
B05 - Tank External Protection - Jacketed
I05 - Overfill - Vent Whistle
L00 - Piping Leak Detection - None
C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
J05 - Dispenser - On Site Heating System (Supply/Return)
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

1160 COLGATE AVENUE HDFC (Continued) **A100291323**

D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	4
Tank Type:	Steel Tank in Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/31/1974
Capacity Gallons:	1500
Tightness Test Method:	21
Date Test:	01/10/2018
Next Test Date:	01/10/2019
Date Tank Closed:	Not reported
Register:	True
Modified By:	TLYE
Last Modified:	02/05/2018
Material Name:	#2 fuel oil (on-site consumption)

Y171 **CON EDISON** **NY MANIFEST** **S118463336**
West **1465 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10456**
0.184 mi.
973 ft. **Site 10 of 11 in cluster Y**

Relative:
Higher

Actual:
62 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004850059
Facility Status:	Not reported
Location Address 1:	1465 BRYANT AVE
Code:	BP
Location Address 2:	SB 1149
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10456
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004850059
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	10/08/2015

CON EDISON (Continued) **S118463336**

Trans1 Recv Date:	10/08/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/15/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004850059
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002661469GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AE172 **FAMILY DOLLAR STORE #6852** **RCRA-CESQG** **1017788063**
SSW **1274 WESTCHESTER AVE** **FINDS** **NYR000218024**
1/8-1/4 **BRONX, NY 10459** **ECHO**
0.185 mi.
976 ft. **Site 2 of 3 in cluster AE**

Relative: RCRA-CESQG:
Higher

Date form received by agency:	03/10/2015
Facility name:	FAMILY DOLLAR STORE #6852
Facility address:	1274 WESTCHESTER AVE BRONX, NY 10459-2611
EPA ID:	NYR000218024
Mailing address:	PO BOX 1017

Actual:
42 ft.

FAMILY DOLLAR STORE #6852 (Continued) **1017788063**

	CHARLOTTE, NC 28201
Contact:	KEVIN STRAIGHT
Contact address:	PO BOX 1017 CHARLOTTE, NC 28201
Contact country:	US
Contact telephone:	704-708-1909
Contact email:	KSTRAIGHT@FAMILYDOLLAR.COM
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	FAMILY DOLLAR STORES
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	08/18/2005
Owner/Op end date:	Not reported
Owner/operator name:	BRUCE MEIR REALTY GROUP
Owner/operator address:	JEROME AVE BRONX, NY 10452
Owner/operator country:	US
Owner/operator telephone:	718-496-1548
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2012
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

FAMILY DOLLAR STORE #6852 (Continued) **1017788063**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: U002
. Waste name: ACETONE (I)

Violation Status: No violations found

FINDS:

FAMILY DOLLAR STORE #6852 (Continued) **1017788063**

Registry ID: 110064017139

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1017788063
Registry ID: 110064017139
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110064017139

AG173 **CON EDISON** **NY MANIFEST** **S117318154**
ENE **1350 BRONX RIVER AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.186 mi.
982 ft. **Site 1 of 2 in cluster AG**

Relative:
Higher

Actual:
42 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004656542
Facility Status: Not reported
Location Address 1: 1350 BRONX RIVER AV
Code: BP
Location Address 2: SB1636
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10472
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004656542
Mailing Name: CON EDISON
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL
Mailing Address 2: 15TH FL
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJD003812047

CON EDISON (Continued) **S117318154**

Trans2 State ID:	Not reported
Generator Ship Date:	09/12/2014
Trans1 Recv Date:	09/12/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/15/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004656542
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563622GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AG174 **CON EDISON** **NY MANIFEST** **S117318594**
ENE **1350 BRONX RIVER AV** **N/A**
1/8-1/4 **BRONX, NY 10473**
0.186 mi.
982 ft. **Site 2 of 2 in cluster AG**

Relative: NY MANIFEST:
Higher

Country:	USA
EPA ID:	NYP004661518
Facility Status:	Not reported
Location Address 1:	1350 BRONX RIVER AV

Actual:
42 ft.

CON EDISON (Continued) **S117318594**

Code:	BP
Location Address 2:	SB1628
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10473
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004661518
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	09/19/2014
Trans1 Recv Date:	09/19/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004661518
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563573GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported

CON EDISON (Continued) **S117318594**

Quantity:	300
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

V175 **NEW DAY II** **NY AST** **A100175145**
SSW **1138 LONGFELLOW AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.188 mi.
990 ft. **Site 7 of 7 in cluster V**

Relative: **Higher**
Actual: **51 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-477435
Program Type:	PBS
UTM X:	593786.31344
UTM Y:	4520172.43377
Expiration Date:	N/A
Site Type:	Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)

Affiliation Records:

Site Id:	21175
Affiliation Type:	Facility Owner
Company Name:	NYC HUMAN RESOURCES ADMINISTRATION
Contact Type:	SUPERINTENDENT OF ADULT INSTITUTE
Contact Name:	LAWRENCE HOLLINGS
Address1:	180 WATER STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 274-6400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2011-12-12

Site Id:	21175
Affiliation Type:	Mail Contact
Company Name:	NYC HUMAN RESOURCES ADMINISTRATION - ODVEIS
Contact Type:	Not reported
Contact Name:	MR. LAWRENCE HOLLINGS
Address1:	180 WATER STREET

NEW DAY II (Continued) **A100175145**

Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(718) 617-8758
EMail:	HOLLINGSL@HRA.NYC.GOV
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2011-12-12

Site Id:	21175
Affiliation Type:	Facility Operator
Company Name:	NEW DAY II
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 617-8750
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2011-12-12

Site Id:	21175
Affiliation Type:	Emergency Contact
Company Name:	NYC HUMAN RESOURCES ADMINISTRATION
Contact Type:	Not reported
Contact Name:	LAWRENCE HOLLINGS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 617-8758
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2011-12-12

Tank Info:

Tank Number:	001
Tank Id:	41040
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None

NEW DAY II (Continued) **A100175145**

J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
C03 - Pipe Location - Aboveground/Underground Combination
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
I05 - Overfill - Vent Whistle

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/26/1973
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	02/24/1989
Register:	True
Modified By:	CGFREEDM
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

W176 **J KAUFMAN IRON WORKS INC** **RCRA NonGen / NLR** **1004762794**
North **1685 BOONE AVE** **FINDS** **NYR000100537**
1/8-1/4 **BRONX, NY 10460** **ECHO**
0.188 mi. **NY E DESIGNATION**
991 ft. **Site 12 of 12 in cluster W** **NY MANIFEST**

Relative:
Higher

Actual:
36 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	J KAUFMAN IRON WORKS INC
Facility address:	1685 BOONE AVE BRONX, NY 10460
EPA ID:	NYR000100537
Mailing address:	GODWIN AVE PATERSON, NY 07501
Contact:	LARRY KAUFMAN
Contact address:	GODWIN AVE PATERSON, NY 07501
Contact country:	US
Contact telephone:	718-991-5400
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	JRWB REALTY
Owner/operator address:	217 GODWIN AVE PATERSON, NJ 07501
Owner/operator country:	US
Owner/operator telephone:	973-925-9972
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported

J KAUFMAN IRON WORKS INC (Continued) **1004762794**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2001
Owner/Op end date: Not reported

Owner/operator name: JRWB REALTY
Owner/operator address: 217 GODWIN AVE
PATERSON, NJ 07501
Owner/operator country: US
Owner/operator telephone: 973-925-9972
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2001
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: J KAUFMAN IRON WORKS INC
Classification: Not a generator, verified

Date form received by agency: 09/05/2001
Site name: J KAUFMAN IRON WORKS INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

J KAUFMAN IRON WORKS INC (Continued) **1004762794**

Registry ID: 110012206889

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004762794
Registry ID: 110012206889
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110012206889

E DESIGNATION:
Tax Lot(s): 40
Tax Block: 3010
Borough Code: Not reported
E-No: E-277
Effective Date: 10/5/2011
Satisfaction Date: Not reported
Ceqr Number: 10DCP017X
Ulurp Number: 100310ZMX
Zoning Map No: 3d

Description: Air Quality - #2 Fuel Oil or Natural Gas for heating, ventilating and air conditioning systems
Lot Remediation Date: Not reported

Description: Exhaust stack location limitations
Lot Remediation Date: Not reported

Description: Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date: Not reported

Description: Hazardous Materials* Phase I and Phase II Testing Protocol
Lot Remediation Date: Not reported

NY MANIFEST:
Country: USA
EPA ID: NYR000100537
Facility Status: Not reported
Location Address 1: 1685 BOONE AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

J KAUFMAN IRON WORKS INC (Continued) **1004762794**

NY MANIFEST:

EPAID:	NYR000100537
Mailing Name:	KAUFMAN IRON WORKS
Mailing Contact:	L H JOSEPH
Mailing Address 1:	1685 BOONE AVE
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10460
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7189915400

NY MANIFEST:

Document ID:	NJA4007445
Manifest Status:	Not reported
seq:	01
Year:	2001
Trans1 State ID:	08690
Trans2 State ID:	Not reported
Generator Ship Date:	10/04/2001
Trans1 Recv Date:	10/04/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/17/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000100537
Trans1 EPA ID:	SCR000075150
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002182897
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	F003 - UNKNOWN
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	03234
Units:	P - Pounds
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

J KAUFMAN IRON WORKS INC (Continued) **1004762794**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AH177 **1558 BRYANT AVE.** **NY AST** **A100139056**
NNW **1558 BRYANT AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.188 mi.
994 ft. **Site 1 of 4 in cluster AH**

Relative:
Higher

Actual:
60 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-603982
Program Type:	PBS
UTM X:	593909.85614
UTM Y:	4520978.41112
Expiration Date:	N/A
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	25872
Affiliation Type:	Mail Contact
Company Name:	WAVECREST MGMT TRAM
Contact Type:	Not reported
Contact Name:	RICK VILLANUEVA
Address1:	87-14 116TH ST
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	11418
Country Code:	001
Phone:	(718) 412-3734
EMail:	NSPITZ@TWMT.NET
Fax Number:	Not reported
Modified By:	HDDUPIGN
Date Last Modified:	2015-11-24

Site Id:	25872
Affiliation Type:	Facility Operator
Company Name:	1558 BRYANT AVE.
Contact Type:	Not reported
Contact Name:	ROBERT SPITZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 662-1272
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2012-12-11

Site Id:	25872
Affiliation Type:	Emergency Contact
Company Name:	BRYANT AVE. APTS LIC

1558 BRYANT AVE. (Continued) **A100139056**

Contact Type:	Not reported
Contact Name:	ROBERT SPITZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 662-1272
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2012-12-11

Site Id:	25872
Affiliation Type:	Facility Owner
Company Name:	BRYANT AVE. APTS LIC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	87-14 116 STREET
Address2:	Not reported
City:	RICHMOND HILL
State:	NY
Zip Code:	11418
Country Code:	001
Phone:	(718) 463-1200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	HDDUPIGN
Date Last Modified:	2015-11-24

Tank Info:

Tank Number:	001
Tank Id:	56193
Material Code:	0002
Common Name of Substance:	#4 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J00 - Dispenser - None
C01 - Pipe Location - Aboveground
D00 - Pipe Type - No Piping

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	04/14/1945
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported

1558 BRYANT AVE. (Continued) **A100139056**

Next Test Date:	Not reported
Date Tank Closed:	08/02/2011
Register:	True
Modified By:	HDDUPIGN
Last Modified:	04/14/2017
Material Name:	#4 fuel oil (resale/redistribute)

AH178 **CON EDISON** **NY MANIFEST** **S107783226**
NNW **1558 BRYANT AV** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.188 mi.
994 ft. **Site 2 of 4 in cluster AH**

Relative:
Higher

Actual:
60 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004623005
Facility Status:	Not reported
Location Address 1:	1558 BRYANT AV
Code:	BP
Location Address 2:	SB1171
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004623005
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/08/2014
Trans1 Recv Date:	08/08/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/12/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004623005
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002562356GBF

CON EDISON (Continued) **S107783226**

Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	250
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AI179 **CON EDISON** **NY MANIFEST** **S117316991**
East **1327 ELDER AVE** **N/A**
1/8-1/4 **BRONX, NY 10462**
0.189 mi.
997 ft. **Site 1 of 2 in cluster AI**

Relative:
Higher

Actual:
49 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004643268
Facility Status:	Not reported
Location Address 1:	1327 ELDER AVE
Code:	BP
Location Address 2:	SB 19352
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10462
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004643268
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE - 15TH FLOOR

CON EDISON (Continued) **S117316991**

Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/29/2014
Trans1 Recv Date:	08/29/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/03/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004643268
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002562894GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

CON EDISON (Continued) **S117316991**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Y180 **CON EDISON** **NY MANIFEST** **S117535767**
West **1455 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.189 mi.
998 ft. **Site 11 of 11 in cluster Y**

Relative:
Higher

Actual:
58 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004681326
Facility Status:	Not reported
Location Address 1:	1455 BRYANT AVE
Code:	BP
Location Address 2:	SB 1148
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004681326
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	10/21/2014
Trans1 Recv Date:	10/21/2014
Trans2 Recv Date:	10/28/2014
TSD Site Recv Date:	10/28/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004681326
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002564490GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N

CON EDISON (Continued) **S117535767**

Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AI181 **CON EDISON** **NY MANIFEST** **S117318648**
East **1323 ELDER AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.190 mi.
1002 ft. **Site 2 of 2 in cluster AI**

Relative:
Higher

Actual:
50 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004662086
Facility Status:	Not reported
Location Address 1:	1323 ELDER AV
Code:	BP
Location Address 2:	SB17352
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004662086
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003

CON EDISON (Continued) **S117318648**

Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	09/19/2014
Trans1 Recv Date:	09/19/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/23/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004662086
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563470GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AC182 **COLGATE TOWERS** **RCRA-CESQG** **1008892167**
SSE **1156 COLGATE AVE - APT 1A** **NY MANIFEST** **NYR000135434**
1/8-1/4 **BRONX, NY 10472**
0.193 mi.
1021 ft. **Site 3 of 9 in cluster AC**

Relative:
Higher

Actual:
20 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	COLGATE TOWERS
Facility address:	1156 COLGATE AVE - APT 1A BRONX, NY 10472
EPA ID:	NYR000135434
Mailing address:	VEMILYEA AVE - SUITE 1A NEW YORK, NY 10034
Contact:	BOGDAN SZCZUREK
Contact address:	VEMILYEA AVE - SUITE 1A NEW YORK, NY 10034
Contact country:	US
Contact telephone:	718-599-3718
Contact email:	RMCBOB@EARTHLINK.NET
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	COLGATE TOWERS INC
Owner/operator address:	VERMILYEA AVE - SUITE 1A NEW YORK, NY 10034
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1995
Owner/Op end date:	Not reported
Owner/operator name:	NO NAME FOUND
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported

COLGATE TOWERS (Continued) **1008892167**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/18/2005
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: COLGATE TOWERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 11/16/2005
Site name: COLGATE TOWERS
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

NY MANIFEST:
Country: USA
EPA ID: NYR000135434
Facility Status: Not reported
Location Address 1: 1156 COLGATE AVENUE APR 1A
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BORNX
Location State: NY
Location Zip: 10472
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYR000135434
Mailing Name: COLGATE TOWERS LLC
Mailing Contact: BOYSIE SIEW
Mailing Address 1: 115 VERMILYEA AVENUE
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY

COLGATE TOWERS (Continued) **1008892167**

Mailing Zip:	10034
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2123040988

NY MANIFEST:

Document ID:	NYG5227425
Manifest Status:	Not reported
seq:	01
Year:	2006
Trans1 State ID:	NYR000081570
Trans2 State ID:	NYD049178206
Generator Ship Date:	02/24/2006
Trans1 Recv Date:	02/24/2006
Trans2 Recv Date:	03/09/2006
TSD Site Recv Date:	03/23/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000135434
Trans1 EPA ID:	NY83343JE
Trans2 EPA ID:	14127PANY
TSDF ID 1:	CDX480000000
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00240
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00

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-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AA183 **1219 WHEELER AVENUE** **NY AST** **A100173368**
SE **1219 WHEELER AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.194 mi.
1022 ft. **Site 4 of 6 in cluster AA**

Relative:
Higher

Actual:
27 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-287075
Program Type:	PBS
UTM X:	594435.42767
UTM Y:	4520386.83813
Expiration Date:	N/A
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	12832
Affiliation Type:	Mail Contact
Company Name:	1219 W REALTY LLC
Contact Type:	Not reported
Contact Name:	BARRY WEISS
Address1:	51 FOREST RD SUITE 316-17
Address2:	Not reported
City:	MONROE
State:	NY
Zip Code:	10950
Country Code:	001
Phone:	(646) 238-9669
EMail:	BARRYMGT@GMAIL.COM
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2016-08-05

Site Id:	12832
Affiliation Type:	Facility Operator
Company Name:	1219 WHEELER AVENUE
Contact Type:	Not reported
Contact Name:	SANTOS JR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-8180
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	12832
Affiliation Type:	Emergency Contact
Company Name:	KARGOR MANAGEMENT CO
Contact Type:	Not reported
Contact Name:	SANTOS JR
Address1:	Not reported
Address2:	Not reported
City:	Not reported

1219 WHEELER AVENUE (Continued) **A100173368**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-8180
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	12832
Affiliation Type:	Facility Owner
Company Name:	1219 W REALTY LLC
Contact Type:	OWNER
Contact Name:	CHAYA WEISS
Address1:	51 FOREST RD UNIT 316-17
Address2:	Not reported
City:	MONROE
State:	NY
Zip Code:	10950
Country Code:	001
Phone:	(646) 238-9669
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2016-08-05

Tank Info:

Tank Number:	001
Tank Id:	17693
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

D00 - Pipe Type - No Piping
G03 - Tank Secondary Containment - Vault (w/o access)
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
I05 - Overfill - Vent Whistle

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	12/01/1930
Capacity Gallons:	1500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	06/21/2016
Register:	True

1219 WHEELER AVENUE (Continued) **A100173368**

Modified By: LXZIELIN
Last Modified: 04/14/2017
Material Name: #2 fuel oil (on-site consumption)

AJ184 **CON EDISON** **NY MANIFEST** **S117537679**
SE **1483 WESTCHESTER AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.194 mi.
1026 ft. **Site 1 of 5 in cluster AJ**

Relative:
Higher

Actual:
25 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004702650
Facility Status: Not reported
Location Address 1: 1483 WESTCHESTER AV
Code: BP
Location Address 2: SB1515
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10472
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004702650
Mailing Name: CON EDISON
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL
Mailing Address 2: 15TH FL
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJD003812047
Trans2 State ID: NJD003812047
Generator Ship Date: 12/04/2014
Trans1 Recv Date: 12/04/2014
Trans2 Recv Date: 12/15/2014
TSD Site Recv Date: 12/15/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004702650
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NJD991291105
TSDF ID 2: Not reported
Manifest Tracking Number: 002564776GBF
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N

CON EDISON (Continued) **S117537679**

Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

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-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AK185 **1145 LONGFELLOW AVENUE** **NY AST** **U003397133**
SW **1145 LONGFELLOW AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.198 mi.
1044 ft. **Site 1 of 5 in cluster AK**

Relative:
Higher

Actual:
57 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-603391
Program Type:	PBS
UTM X:	593768.33816
UTM Y:	4520320.53329
Expiration Date:	10/21/2019
Site Type:	Other

Affiliation Records:

Site Id:	25308
Affiliation Type:	Mail Contact
Company Name:	MAP LONGFELLOW LLC
Contact Type:	MANAGER
Contact Name:	ABE PULTMAN
Address1:	PO BOX 100800
Address2:	Not reported
City:	BROOKLYN
State:	NY

1145 LONGFELLOW AVENUE (Continued) **U003397133**

Zip Code:	11210
Country Code:	001
Phone:	(718) 258-06590
EMail:	MIRIAM@SPMNY.COM
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-05-22

Site Id:	25308
Affiliation Type:	Facility Operator
Company Name:	1145 LONGFELLOW AVENUE
Contact Type:	Not reported
Contact Name:	NA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 258-6590
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-05-22

Site Id:	25308
Affiliation Type:	Emergency Contact
Company Name:	MAP LONGFELLOW LLC
Contact Type:	Not reported
Contact Name:	ERIC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 578-8396
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-05-22

Site Id:	25308
Affiliation Type:	Facility Owner
Company Name:	MAP LONGFELLOW LLC
Contact Type:	MANAGER
Contact Name:	ABE PULTMAN
Address1:	PO BOX 100800
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11210
Country Code:	001
Phone:	(718) 258-06590
EMail:	MIRIAM@SPMNY.COM
Fax Number:	Not reported
Modified By:	DMPOKRZY

1145 LONGFELLOW AVENUE (Continued) **U003397133**

Date Last Modified: 2017-05-22

Tank Info:

Tank Number: 001
Tank Id: 54126
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
I01 - Overfill - Float Vent Valve
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
B99 - Tank External Protection - Other

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 10/01/1910
Capacity Gallons: 2500
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: DMPOKRZY
Last Modified: 05/22/2017
Material Name: #2 fuel oil (on-site consumption)

AH186 **HIGHWATER TOWER CORP** **NY AST** **A100326244**
NNW **995 E. 173RD ST** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.198 mi.
1044 ft. **Site 3 of 4 in cluster AH**

Relative:
Higher

Actual:
57 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-611027
Program Type: PBS
UTM X: 593976.63967
UTM Y: 4520995.51955
Expiration Date: 12/27/2021
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 410531
Affiliation Type: Facility Owner
Company Name: HIGHWATER TOWER CORP
Contact Type: PRESIDENT

HIGHWATER TOWER CORP (Continued) **A100326244**

Contact Name:	EVA GEORGILA
Address1:	954 LEXINGTON AVENUE, # 127
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10021
Country Code:	001
Phone:	(917) 673-6754
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2018-04-12

Site Id:	410531
Affiliation Type:	Mail Contact
Company Name:	HIGHWATER TOWER CORP
Contact Type:	Not reported
Contact Name:	EVA GEORGILA
Address1:	220 E 65TH ST
Address2:	APT. 14F
City:	NEW YORK
State:	NY
Zip Code:	10065
Country Code:	001
Phone:	(917) 673-6754
EMail:	GEORGILAEVA@GMAIL.COM
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2018-04-12

Site Id:	410531
Affiliation Type:	Facility Operator
Company Name:	HIGHWATER TOWER CORP
Contact Type:	Not reported
Contact Name:	EVA GEORGILA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 688-3098
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2009-02-27

Site Id:	410531
Affiliation Type:	Emergency Contact
Company Name:	HIGHWATER TOWER CORP
Contact Type:	Not reported
Contact Name:	EVA GEORGILA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported

HIGHWATER TOWER CORP (Continued) **A100326244**

Country Code:	999
Phone:	(917) 673-6754
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2018-04-12

Tank Info:

Tank Number:	001
Tank Id:	227474
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

C01 - Pipe Location - Aboveground
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I05 - Overfill - Vent Whistle
L00 - Piping Leak Detection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	07/20/1968
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MRBARROW
Last Modified:	04/12/2018
Material Name:	#2 fuel oil (on-site consumption)

AF187 **HAMILTON STERLING CORP** **RCRA NonGen / NLR** **1000254635**
South **1140 BRONX RIVER RD** **FINDS** **NYD001309582**
1/8-1/4 **BRONX, NY 10472** **ECHO**
0.198 mi.
1048 ft. **Site 2 of 3 in cluster AF**

Relative:
Higher

Actual:
19 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	HAMILTON STERLING CORP
Facility address:	1140 BRONX RIVER RD BRONX, NY 10472
EPA ID:	NYD001309582
Mailing address:	BRONX RIVER RD BRONX, NY 10472
Contact:	NICK PALETTA

HAMILTON STERLING CORP (Continued) **1000254635**

Contact address: BRONX RIVER RD
BRONX, NY 10472
Contact country: US
Contact telephone: 718-893-0800
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: HAMILTON STERLING CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: HAMILTON STERLING CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006

HAMILTON STERLING CORP (Continued) **1000254635**

Site name: HAMILTON STERLING CORP
Classification: Not a generator, verified

Date form received by agency: 03/30/1981
Site name: HAMILTON STERLING CORP
Classification: Not a generator, verified

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS

. Waste code: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 01/11/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/09/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004333579

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

HAMILTON STERLING CORP (Continued) **1000254635**

ECHO:
Envid: 1000254635
Registry ID: 110004333579
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004333579

AC188 **1152-56 COLGATE AVE** **NY AST** **A100354029**
SSE **1152-56 COLGATE AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.199 mi.
1049 ft. **Site 4 of 9 in cluster AC**

Relative:
Higher

Actual:
20 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-274917
Program Type: PBS
UTM X: 594298.95912
UTM Y: 4520172.22281
Expiration Date: 10/23/2020
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 11766
Affiliation Type: Facility Owner
Company Name: COLGATE TOWERS INC.
Contact Type: PRESIDENT
Contact Name: BOYSIE SIEW
Address1: 621 WEST188TH STREET, FRONT 1
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10040
Country Code: 001
Phone: (212) 304-0988
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2017-04-03

Site Id: 11766
Affiliation Type: Mail Contact
Company Name: COLGATE TOWERS INC.
Contact Type: PRESIDENT
Contact Name: BOYSIE SIEW
Address1: 621 WEST188TH STREET, FRONT 1
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10040
Country Code: 001
Phone: (212) 304-0988
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2017-04-03

Site Id: 11766

1152-56 COLGATE AVE (Continued) **A100354029**

Affiliation Type:	Facility Operator
Company Name:	1152-56 COLGATE AVE
Contact Type:	Not reported
Contact Name:	MUKESH MAJIDULLA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(646) 515-0805
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-11-18

Site Id:	11766
Affiliation Type:	Emergency Contact
Company Name:	COLGATE TOWERS INC.
Contact Type:	Not reported
Contact Name:	BOYSIE SIEW
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 304-0988
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-11-18

Tank Info:

Tank Number:	001
Tank Id:	23290
Material Code:	0002
Common Name of Substance:	#4 Fuel Oil (On-Site Consumption)

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
J00 - Dispenser - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service

1152-56 COLGATE AVE (Continued) **A100354029**

Pipe Model:	Not reported
Install Date:	01/13/1993
Capacity Gallons:	3500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	04/14/2017
Material Name:	#4 fuel oil (on-site consumption)

AC189 **COLGATE TOWERS** **RCRA NonGen / NLR** **1008892173**
SSE **1152 COLGATE AVE - APT 4C** **NYR000135491**
1/8-1/4 **BRONX, NY 10472**
0.199 mi.
1049 ft. **Site 5 of 9 in cluster AC**

Relative:
Higher

Actual:
20 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	COLGATE TOWERS
Facility address:	1152 COLGATE AVE - APT 4C BRONX, NY 10472
EPA ID:	NYR000135491
Mailing address:	VERMILYEA AVE - SUITE 1A NEW YORK, NY 10034
Contact:	BOGDAN SZCZUREK
Contact address:	VERMILYEA AVE - SUITE 1A NEW YORK, NY 10034
Contact country:	US
Contact telephone:	718-599-3718
Contact email:	RMCBOB@EARTHLINK.NET
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NO NAME FOUND
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	10/18/2005
Owner/Op end date:	Not reported
Owner/operator name:	COLGATE TOWERS LLC
Owner/operator address:	VERMILYEA AVE - SUITE 1A NEW YORK, NY 10034
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported

COLGATE TOWERS (Continued) **1008892173**

Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1995
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: COLGATE TOWERS
Classification: Not a generator, verified

Date form received by agency: 11/17/2005
Site name: COLGATE TOWERS
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

AB190 **SPILL NUMBER 0011458** **NY LTANKS** **S104950562**
ESE **1256 WHEELER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.199 mi.
1051 ft. **Site 4 of 7 in cluster AB**

Relative: Higher
Actual: 29 ft.

LTANKS:
Facility ID: 0011458
Site ID: 157591
Closed Date: 2004-05-03
Spill Number: 0011458
Spill Date: 2000-12-21
Spill Cause: Tank Overfill
Spill Source: Tank Truck
Spill Class: B3
Cleanup Ceased: Not reported
SWIS: 0301
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 2001-01-23
CID: 207

SPILL NUMBER 0011458 (Continued) **S104950562**

Water Affected:	Not reported
Spill Notifier:	Citizen
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2001-01-23
Spill Record Last Update:	2004-05-03
Spiller Name:	Not reported
Spiller Company:	EDGEWOOD OIL
Spiller Address:	106 EDGEWOOD AVE
Spiller County:	001
Spiller Contact:	CEDRIC FREEMAN
Spiller Phone:	(718) 617-4945
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	133250
DEC Memo:	""
Remarks:	"Caller states this spill went unreported by the oil co. and they did nothing re: cleanup - product spilled outside residence and some leaked inside - sand applied but no real cleanup to date"

All Materials:

Site ID:	157591
Operable Unit ID:	832851
Operable Unit:	01
Material ID:	541768
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AL191 **NINA DUNN HDFC** **NY AST** **A100295277**
North **1670 LONGFELLOW AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.199 mi.
1053 ft. **Site 1 of 3 in cluster AL**

Relative:
Higher

Actual:
47 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-608928
Program Type:	PBS
UTM X:	594017.57036
UTM Y:	4521028.16573
Expiration Date:	04/30/2023
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	30776
Affiliation Type:	Facility Owner
Company Name:	NINA DUNN HDFC

NINA DUNN HDFC (Continued) **A100295277**

Contact Type:	ASSISTANT TREASURER
Contact Name:	MARY WALLACE
Address1:	1670 LONGFELLOW AVENUE, SUITE #1F
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(718) 542-2455
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-04-09

Site Id:	30776
Affiliation Type:	Mail Contact
Company Name:	NINA DUNN HDFC
Contact Type:	Not reported
Contact Name:	BOARD OF DIRECTORS
Address1:	1670 LONGFELLOW AVENUE, SUITE #1F
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(718) 542-2455
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-04-09

Site Id:	30776
Affiliation Type:	Facility Operator
Company Name:	NINA DUNN HDFC
Contact Type:	Not reported
Contact Name:	NINA DUNN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 542-2455
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-04-09

Site Id:	30776
Affiliation Type:	Emergency Contact
Company Name:	NINA DUNN HDFC
Contact Type:	Not reported
Contact Name:	EDDIE YOUNG
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

NINA DUNN HDFC (Continued) **A100295277**

Zip Code:	Not reported
Country Code:	999
Phone:	(718) 300-8717
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-04-09

Tank Info:

Tank Number:	1
Tank Id:	65978
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

C01 - Pipe Location - Aboveground
I05 - Overfill - Vent Whistle
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/02/1984
Capacity Gallons:	5000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MFLEONAR
Last Modified:	04/09/2018
Material Name:	#2 fuel oil (on-site consumption)

AL192 **CON EDISON** **NY MANIFEST** **S117066722**
North **1670 LONG FELLOW AV** **N/A**
1/8-1/4 **BRONX, NY 10461**
0.199 mi.
1053 ft. **Site 2 of 3 in cluster AL**

Relative:
Higher

Actual:
47 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004594099
Facility Status:	Not reported
Location Address 1:	1670 LONG FELLOW AV
Code:	BP
Location Address 2:	SB17642
Total Tanks:	Not reported

CON EDISON (Continued) **S117066722**

Location City:	BRONX
Location State:	NY
Location Zip:	10461
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004594099
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/11/2014
Trans1 Recv Date:	07/11/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004594099
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002502406GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100
Units:	P - Pounds
Number of Containers:	1

CON EDISON (Continued) **S117066722**

Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AM193 **962 EAST 172ND STREET** **NY AST** **A100292901**
WNW **962 EAST 172ND STREET** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.201 mi.
1062 ft. **Site 1 of 2 in cluster AM**

Relative:
Higher

Actual:
66 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-468371
Program Type:	PBS
UTM X:	593779.34581
UTM Y:	4520859.98143
Expiration Date:	N/A
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	20416
Affiliation Type:	Facility Owner
Company Name:	NYC/HPD/DAMP
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	100 GOLD ST #7Z5
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 863-7301
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-09-23

Site Id:	20416
Affiliation Type:	Mail Contact
Company Name:	NYC/HPD/DAMP
Contact Type:	Not reported
Contact Name:	ASST. COMMISSIONER/DAMP
Address1:	100 GOLD STREET
Address2:	#7Z5
City:	NEW YORK
State:	NY

962 EAST 172ND STREET (Continued) **A100292901**

Zip Code:	10038
Country Code:	001
Phone:	(212) 863-7301
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2014-05-01

Site Id:	20416
Affiliation Type:	Facility Operator
Company Name:	962 EAST 172ND STREET
Contact Type:	Not reported
Contact Name:	ASST. COMMISSIONER/DAMP
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 863-7301
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	20416
Affiliation Type:	Emergency Contact
Company Name:	Not reported
Contact Type:	Not reported
Contact Name:	213/215 MOTT ST. H.D.F.C.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 613-0908
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-03-04

Tank Info:

Tank Number:	001
Tank Id:	37116
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None

962 EAST 172ND STREET (Continued) **A100292901**

B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
I05 - Overfill - Vent Whistle
F00 - Pipe External Protection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	05/29/2002
Register:	True
Modified By:	CGFREEDM
Last Modified:	04/14/2017
Material Name:	#6 fuel oil (on-site consumption)

AA194 **FELIX APONTE/MERCEDES APONTE AS EXECUTOR OF STATE** **NY AST** **A100177889**
SE **1227 WHEELER AVE.** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.203 mi.
1073 ft. **Site 5 of 6 in cluster AA**

Relative:
Higher

Actual:
28 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-605564
Program Type:	PBS
UTM X:	594431.22916
UTM Y:	4520408.31020
Expiration Date:	04/05/2016
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	27431
Affiliation Type:	Facility Owner
Company Name:	MERCEDES APONTE EXECUTOR OF STATE
Contact Type:	OWNER
Contact Name:	MERCEDES APONTE
Address1:	1227 WHEELER AVENUE, APT. 1-A
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10472
Country Code:	001
Phone:	(718) 991-8926
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2006-02-23

Site Id:	27431
Affiliation Type:	Mail Contact
Company Name:	MERCEDES APONTE EXECUTOR OF STATE
Contact Type:	Not reported

FELIX APONTE/MERCEDES APONTE AS EXECUTOR OF STATE (Continued) **A100177889**

Contact Name:	MERCEDES APONTE
Address1:	P.O. BOX 1327
Address2:	SOUNDVIEW STATION
City:	BRONX
State:	NY
Zip Code:	10472
Country Code:	001
Phone:	(718) 991-8926
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2006-02-23

Site Id:	27431
Affiliation Type:	Facility Operator
Company Name:	FELIX APONTE/MERCEDES APONTE AS EXECUTOR OF STATE
Contact Type:	Not reported
Contact Name:	MERCEDES APONTE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 991-8926
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	27431
Affiliation Type:	Emergency Contact
Company Name:	MERCEDES APONTE EXECUTOR OF STATE
Contact Type:	Not reported
Contact Name:	ELIZABETH FIGUEROA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 991-2272
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank Id:	60061
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

B00 - Tank External Protection - None

FELIX APONTE/MERCEDES APONTE AS EXECUTOR OF STATE (Continued) **A100177889**

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1968
Capacity Gallons:	1500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	BVCAMPBE
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

AC195 **1150 COLGATE AVENUE** **NY UST** **U000410324**
SSE **1150 COLGATE AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.204 mi.
1077 ft. **Site 6 of 9 in cluster AC**

Relative: **Higher**
Actual: **20 ft.**

UST:

Id/Status:	2-468460 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	05/17/2021
UTM X:	594300.18042
UTM Y:	4520166.21120
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	20423
Affiliation Type:	Facility Owner
Company Name:	ZEVRONE REALTY CORP
Contact Type:	ASST. TO DIRECTOR OF OPERATIONS
Contact Name:	SHARON LESTER
Address1:	1601 BRONXDALE AVE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10462
Country Code:	001
Phone:	(718) 518-8000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	2016-05-17

1150 COLGATE AVENUE (Continued) **U000410324**

Site Id:	20423
Affiliation Type:	Mail Contact
Company Name:	ZEVRONE REALTY CORP
Contact Type:	Not reported
Contact Name:	SHARON LESTER
Address1:	1601 BRONXDALE AVE
Address2:	SUITE 201
City:	BRONX
State:	NY
Zip Code:	10462
Country Code:	001
Phone:	(718) 518-8000
EMail:	SHARONL@LANGSAMPROP.COM
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	2016-05-17

Site Id:	20423
Affiliation Type:	Facility Operator
Company Name:	1150 COLGATE AVENUE
Contact Type:	Not reported
Contact Name:	JOSE ZABALA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(914) 562-9277
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	2016-05-17

Site Id:	20423
Affiliation Type:	Emergency Contact
Company Name:	ZEVRONE REALTY CORP
Contact Type:	Not reported
Contact Name:	JOSE ZABALA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 36(914)3-3511
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	2016-05-17

Tank Info:

Tank Number:	001
Tank ID:	37123
Tank Status:	In Service
Material Name:	In Service

1150 COLGATE AVENUE (Continued) **U000410324**

Capacity Gallons:	2000
Install Date:	09/27/1990
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	08/25/2009
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	LSZINOMA
Last Modified:	04/14/2017

Equipment Records:

H99 - Tank Leak Detection - Other
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
B05 - Tank External Protection - Jacketed
I05 - Overfill - Vent Whistle

AE196 **MEXICO BECERRILS AUTO REPAIR CORP.** **NY AST** **A100175322**
SSW **1255 WESTCHESTER AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.207 mi.
1093 ft. **Site 3 of 3 in cluster AE**

Relative:
Higher

Actual:
52 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-604965
Program Type:	PBS
UTM X:	593803.98900
UTM Y:	4520142.77195
Expiration Date:	01/08/2016
Site Type:	Other Wholesale/Retail Sales

Affiliation Records:

Site Id:	26834
Affiliation Type:	Facility Owner
Company Name:	EDUARDO A. BECERRIL
Contact Type:	OWNER
Contact Name:	EDUARADO BECERRIL
Address1:	1585 E. 172ND ST., #H
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10472

MEXICO BECERRILS AUTO REPAIR CORP. (Continued) **A100175322**

Country Code:	001
Phone:	(718) 378-1445
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2006-01-04

Site Id:	26834
Affiliation Type:	Mail Contact
Company Name:	MEXICO BECERRILS AUTO REPAIR CORP.
Contact Type:	Not reported
Contact Name:	EDUARDO BECERRIL
Address1:	1255 WESTCHESTER AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(718) 860-6199
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2006-01-04

Site Id:	26834
Affiliation Type:	Facility Operator
Company Name:	MEXICO BECERRILS AUTO REPAIR CORP.
Contact Type:	Not reported
Contact Name:	BETTY BECERRIL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 860-6199
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2006-01-04

Site Id:	26834
Affiliation Type:	Emergency Contact
Company Name:	EDUARDO A. BECERRIL
Contact Type:	Not reported
Contact Name:	BETTY BECERRIL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 378-1445
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2006-01-04

MEXICO BECERRILS AUTO REPAIR CORP. (Continued) **A100175322**

Tank Info:

Tank Number:	001
Tank Id:	59261
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

G00 - Tank Secondary Containment - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
J00 - Dispenser - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	10/15/2001
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	04/14/2017
Material Name:	waste oil/used oil

AJ197 **1493-1495 WESTCHESTER AVE** **NY AST** **U003383418**
SE **1495 WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.208 mi.
1097 ft. **Site 2 of 5 in cluster AJ**

Relative:
Higher

Actual:
27 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-045373
Program Type:	PBS
UTM X:	594426.35202
UTM Y:	4520328.72860
Expiration Date:	08/05/2021
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	562
Affiliation Type:	Mail Contact
Company Name:	WESCO MANAGEMENT LLC
Contact Type:	Not reported

1493-1495 WESTCHESTER AVE (Continued) **U003383418**

Contact Name:	DAVID YEROSH
Address1:	36 WEST 47TH ST SUITE 207-209
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10036
Country Code:	001
Phone:	(917) 806-7894
EMail:	DABBRONX@OPTIMUM.NET
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-12

Site Id:	562
Affiliation Type:	Facility Operator
Company Name:	1493-1495 WESTCHESTER AVE
Contact Type:	Not reported
Contact Name:	DAVID YEROSH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 806-7894
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-20

Site Id:	562
Affiliation Type:	Emergency Contact
Company Name:	WESCO MANAGEMENT LLC
Contact Type:	Not reported
Contact Name:	DAVID YEROSH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 806-7894
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-12

Site Id:	562
Affiliation Type:	Facility Owner
Company Name:	WESCO MANAGEMENT LLC
Contact Type:	Not reported
Contact Name:	DAVID YEROSH
Address1:	36 WEST 47TH ST SUITE 207-209
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10036

1493-1495 WESTCHESTER AVE (Continued) **U003383418**

Country Code:	001
Phone:	(917) 806-7894
EMail:	DABBRONX@OPTIMUM.NET
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-12

Tank Info:

Tank Number:	001
Tank Id:	1427
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1913
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

AC198 **LANGSAN PROPERTY TTF** **NY LTANKS** **S109829681**
SSE **1148-50 COLGATE AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.209 mi.
1104 ft. **Site 7 of 9 in cluster AC**

Relative: **Higher**
Actual: **20 ft.**

LTANKS:

Facility ID:	0905332
Site ID:	417594
Closed Date:	2009-09-02
Spill Number:	0905332
Spill Date:	2009-08-06
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4

LANGSAN PROPERTY TTF (Continued) **S109829681**

Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	2009-08-07
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2009-08-07
Spill Record Last Update:	2009-09-02
Spiller Name:	MARIA MCCALLEN
Spiller Company:	LANGSAN PROPERTY
Spiller Address:	1148-50 COLEGATE AVE
Spiller County:	999
Spiller Contact:	LIZETTE HERNANDEZ
Spiller Phone:	(718) 378-3000
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	366743
DEC Memo:	"***NOTE**** Tank at 1148 Colgate failed AND tank at 1150 Colgage failed**** 8/10/2009 TTF Letter sent to: Ms. Maria McCullough Zevrone Realty Corp 1601 Bronxdale Ave Suite 201 Bronx, NY 10462 8/12/2009 Rep from Langsan Properties called Sangesland and said ABC Tank has been hired to deal with the repairs/retest. They will forward the documentation to the DEC as soon as the work is done. 9/2/09. J.Krimgold reviewed the letter submitted by ABC Tank dated 08/31/09. Based on this letter two USTs 2000 gal each failed the t/test due to a leaky mainway gasket. The gasket was replaced along with a part on the vent pipe. After that both tanks passed the test. Case closed."
Remarks:	"TANK TEST FAILURE ON 2 2000 GALLON ASTS. One tank in 1148 Colgate Ave One tank in 1150 Colgate Ave"

All Materials:

Site ID:	417594
Operable Unit ID:	1173809
Operable Unit:	01
Material ID:	2165849
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

AC199 **1148 COLGATE AVENUE** **NY UST** **U000411838**
SSE **1148 COLGATE AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.209 mi.
1104 ft. **Site 8 of 9 in cluster AC**

Relative:
Higher

Actual:
20 ft.

UST:

Id/Status:	2-600091 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	05/14/2021
UTM X:	594301.40172
UTM Y:	4520160.19958
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	22077
Affiliation Type:	Facility Owner
Company Name:	ZEVRONE REALTY CORP
Contact Type:	ASST TO DIRECTOR OF OPERATIONS
Contact Name:	SHARON LESTER
Address1:	1601 BRONXDALE AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10462
Country Code:	001
Phone:	(718) 518-8000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2016-06-23

Site Id:	22077
Affiliation Type:	Mail Contact
Company Name:	ZEVRONE REALTY CORP
Contact Type:	Not reported
Contact Name:	SHARON LESTER
Address1:	1601 BRONXDALE AVENUE
Address2:	SUITE 201
City:	BRONX
State:	NY
Zip Code:	10462
Country Code:	001
Phone:	(718) 518-8000
EMail:	SHARONL@LANGSAMPROP.COM
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2016-06-23

Site Id:	22077
Affiliation Type:	Facility Operator
Company Name:	1148 COLGATE AVENUE
Contact Type:	Not reported
Contact Name:	JOSE ZABALA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

1148 COLGATE AVENUE (Continued) **U000411838**

Zip Code:	Not reported
Country Code:	001
Phone:	(914) 562-9277
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2016-05-16

Site Id:	22077
Affiliation Type:	Emergency Contact
Company Name:	ZEVRONE REALTY CORP
Contact Type:	Not reported
Contact Name:	JOSE ZABALA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 562-9277
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2016-05-16

Tank Info:

Tank Number:	001
Tank ID:	41254
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	2000
Install Date:	09/27/1990
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	21
Date Test:	08/25/2009
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MRBARROW
Last Modified:	04/14/2017

Equipment Records:

H99 - Tank Leak Detection - Other
B05 - Tank External Protection - Jacketed
I05 - Overfill - Vent Whistle
E00 - Piping Secondary Containment - None
L09 - Piping Leak Detection - Exempt Suction Piping
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

1148 COLGATE AVENUE (Continued) **U000411838**

D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

AA200 **1226 WHEELER AVE** **NY AST** **S107785006**
SE **1226 WHEELER AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.211 mi.
1113 ft. **Site 6 of 6 in cluster AA**

Relative:
Higher

Actual:
29 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-606371
Program Type:	PBS
UTM X:	594421.09625
UTM Y:	4520397.56623
Expiration Date:	N/A
Site Type:	Private Residence

Affiliation Records:

Site Id:	28234
Affiliation Type:	Facility Owner
Company Name:	N.Y.C. HOUSING HPD PARTNERSHIP
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	100 GOLD ST.
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10030
Country Code:	001
Phone:	(212) 863-6100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	28234
Affiliation Type:	Mail Contact
Company Name:	TRANSCORP CONSTRUCTION
Contact Type:	Not reported
Contact Name:	AMRAN NIAZI
Address1:	82-17 153 AVE.
Address2:	Not reported
City:	HOWARD BEACH
State:	NY
Zip Code:	11417
Country Code:	001
Phone:	(718) 738-7435
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id: 28234

1226 WHEELER AVE (Continued) **S107785006**

Affiliation Type:	Facility Operator
Company Name:	1226 WHEELER AVE
Contact Type:	Not reported
Contact Name:	KRISTEN MANAGEMENT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 892-8888
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	28234
Affiliation Type:	Emergency Contact
Company Name:	N.Y.C. HOUSING HPD PARTNERSHIP
Contact Type:	Not reported
Contact Name:	EDDIE TORRES
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 682-6502
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	01
Tank Id:	61340
Material Code:	0000
Common Name of Substance:	Empty

Equipment Records:

G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J00 - Dispenser - None
D00 - Pipe Type - No Piping

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2500

1226 WHEELER AVE (Continued) **S107785006**

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	05/01/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	empty

AH201 **1553-5 BRYANT AVE.** **NY AST** **A100139054**
NNW **1553-5 BRYANT AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.211 mi.
1116 ft. **Site 4 of 4 in cluster AH**

Relative:
Higher

Actual:
63 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-603980
Program Type:	PBS
UTM X:	593854.78917
UTM Y:	4520881.09027
Expiration Date:	N/A
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	25870
Affiliation Type:	Mail Contact
Company Name:	BRYANT AVENUE APARTMENTS LLC
Contact Type:	Not reported
Contact Name:	ALPHONE LEMBO
Address1:	155 3RD ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 875-8160
EMail:	ALEMBO@MONCON.COM
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	2012-03-29

Site Id:	25870
Affiliation Type:	Facility Operator
Company Name:	1553-5 BRYANT AVE.
Contact Type:	Not reported
Contact Name:	ALPHONSE LEMBO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 306-0214
EMail:	Not reported
Fax Number:	Not reported

1553-5 BRYANT AVE. (Continued) **A100139054**

Modified By:	BVCAMPBE
Date Last Modified:	2012-03-29

Site Id:	25870
Affiliation Type:	Emergency Contact
Company Name:	REO HOUSING DEVELOPMENT FUND
Contact Type:	Not reported
Contact Name:	ALPHONSE LEMBO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 306-0214
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	2012-03-29

Site Id:	25870
Affiliation Type:	Facility Owner
Company Name:	REO HOUSING DEVELOPMENT FUND
Contact Type:	DIRECTOR
Contact Name:	REO HOUSING DEV FUND CORP
Address1:	450 7TH AVENUE SUITE #2401
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10123
Country Code:	001
Phone:	(646) 217-3370
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	2012-03-29

Tank Info:

Tank Number:	001
Tank Id:	56191
Material Code:	0002
Common Name of Substance:	#4 Fuel Oil (On-Site Consumption)

Equipment Records:

L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
I04 - Overfill - Product Level Gauge (A/G)
J00 - Dispenser - None
C01 - Pipe Location - Aboveground
G00 - Tank Secondary Containment - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None

1553-5 BRYANT AVE. (Continued) **A100139054**

E00 - Piping Secondary Containment - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	05/24/1943
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/02/2011
Register:	True
Modified By:	BVCAMPBE
Last Modified:	04/14/2017
Material Name:	#4 fuel oil (on-site consumption)

AN202 **CON EDISON** **NJ MANIFEST** **S120673588**
WSW **1403 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.214 mi.
1129 ft. **Site 1 of 3 in cluster AN**

Relative:
Higher

Actual:
71 ft.

NJ MANIFEST:

EPA Id:	NYP004803433
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002661190GBF
EPA ID:	NYP004803433
Date Shipped:	7/7/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported

CON EDISON (Continued) **S120673588**

Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

AN203 **CON EDISON** **NY MANIFEST** **S119076336**
WSW **1403 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.214 mi.
1129 ft. **Site 2 of 3 in cluster AN**

Relative:
Higher

Actual:
71 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004803433
Facility Status:	Not reported
Location Address 1:	F/O 1430 BRYANT AVENUE
Code:	BP
Location Address 2:	SB 1143
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004803433
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

CON EDISON (Continued) **S119076336**

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/07/2015
Trans1 Recv Date:	07/07/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/09/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004803433
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002661190GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AN204 **CON EDISON** **RCRA NonGen / NLR** **1019904899**
WSW **1403 BRYANT AVE** **NYP004803433**
1/8-1/4 **BRONX, NY 10459**
0.214 mi.
1129 ft. **Site 3 of 3 in cluster AN**

Relative: **Higher**
Actual: **71 ft.**

RCRA NonGen / NLR:

Date form received by agency:	07/07/2015
Facility name:	CON EDISON
Facility address:	1403 BRYANT AVE BRONX, NY 10459
EPA ID:	NYP004803433
Mailing address:	IRVING PL 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	07/07/2015
Site name:	CON EDISON
Classification:	Large Quantity Generator

Violation Status: No violations found

AK205 **1131 LONGFELLOW AVE** **NY AST** **A100291303**
SW **1131 LONGFELLOW AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.215 mi.
1134 ft. **Site 2 of 5 in cluster AK**

Relative: **Higher**
Actual: **58 ft.**

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-609409
Program Type:	PBS

1131 LONGFELLOW AVE (Continued) **A100291303**

UTM X: 593766.78551
UTM Y: 4520141.97582
Expiration Date: 12/30/2018
Site Type: Apartment Building/Office Building

Affiliation Records:

Site Id: 31253
Affiliation Type: Facility Owner
Company Name: CHARLES HERNANDEZ
Contact Type: OWNER
Contact Name: CHARLES HERNANDEZ
Address1: 1025 STRATFORD AVE
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10472
Country Code: 001
Phone: (646) 456-1192
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 2014-01-30

Site Id: 31253
Affiliation Type: Mail Contact
Company Name: Not reported
Contact Type: Not reported
Contact Name: CHARLES HERNANDEZ
Address1: 1025 STRATFORD AVENUE
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10472
Country Code: 001
Phone: (646) 456-1192
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 2014-01-30

Site Id: 31253
Affiliation Type: Facility Operator
Company Name: 1131 LONGFELLOW AVE
Contact Type: Not reported
Contact Name: RAY GARCIA
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 542-8369
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 2008-12-29

Site Id: 31253

1131 LONGFELLOW AVE (Continued) **A100291303**

Affiliation Type:	Emergency Contact
Company Name:	CHARLES HERNANDEZ
Contact Type:	Not reported
Contact Name:	CHARLES HERNANDEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 456-1192
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2008-12-29

Tank Info:

Tank Number:	001
Tank Id:	67357
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	G03 - Tank Secondary Containment - Vault (w/o access)
	H00 - Tank Leak Detection - None
	L09 - Piping Leak Detection - Exempt Suction Piping
	A00 - Tank Internal Protection - None
	D01 - Pipe Type - Steel/Carbon Steel/Iron
	C03 - Pipe Location - Aboveground/Underground Combination
	J02 - Dispenser - Suction Dispenser
	B00 - Tank External Protection - None
	F00 - Pipe External Protection - None
	I05 - Overfill - Vent Whistle
	I04 - Overfill - Product Level Gauge (A/G)
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	06/30/1957
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

AM206 **CON EDISON MANHOLE 12256** **RCRA NonGen / NLR** **1014918176**
WNW **VYSE AVE & 172ND ST** **NYP004217869**
1/8-1/4 **BRONX, NY 10451**
0.217 mi.
1145 ft. **Site 2 of 2 in cluster AM**

Relative:
Higher

Actual:
67 ft.

RCRA NonGen / NLR:
Date form received by agency: 11/13/2010
Facility name: CON EDISON MANHOLE 12256
Facility address: VYSE AVE & 172ND ST
BRONX, NY 10451
EPA ID: NYP004217869
Mailing address: IRVING PL RM 828
NEW YORK, NY 10003
Contact: CHRISTOPHER BLAICH
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: 914-925-6219
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 10/14/2010
Site name: CON EDISON MANHOLE 12256
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

AB207 **CON EDISON** **RCRA NonGen / NLR** **1019325352**
East **W 172 ST & ELDER AVE** **NYP004818714**
1/8-1/4 **BRONX, NY 10472**
0.217 mi.
1146 ft. **Site 5 of 7 in cluster AB**

Relative:
Higher

Actual:
46 ft.

RCRA NonGen / NLR:
Date form received by agency: 02/05/2016
Facility name: CON EDISON
Site name: CON EDISON - SERVICE BOX 19345
Facility address: W 172 ST & ELDER AVE
BRONX, NY 10472

CON EDISON (Continued) **1019325352**

EPA ID: NYP004818714
Mailing address: IRVING PLACE, 15TH FL NE
NEW YORK, NY 10003
Contact: THERESA BURKARD
Contact address: IRVING PLACE, 15TH FL NE
NEW YORK, NY 10003
Contact country: US
Contact telephone: 212-460-2262
Contact email: BURKARDT@CONED.COM
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address: IRVING PLACE
NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/05/2015
Owner/Op end date: Not reported

Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address: IRVING PLACE
NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/05/2015
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

CON EDISON (Continued) **1019325352**

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 08/05/2015
Site name: CON EDISON
Classification: Not a generator, verified

Date form received by agency: 08/05/2015
Site name: CON EDISON
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D008
Waste name: LEAD
Amount (Lbs): 7000

Violation Status: No violations found

AB208 **CON EDISON** **NJ MANIFEST** **S120674990**
East **W 172 ST & ELDER AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.217 mi.
1146 ft. **Site 6 of 7 in cluster AB**

Relative:
Higher

Actual:
46 ft.

NJ MANIFEST:
EPA Id: NYP004818714
Mail Address: IRVING PLACE, 15TH FL NE
Mail City/State/Zip: NEW YORK, NY 10003
Facility Phone: Not reported
Emergency Phone: Not reported
Contact: THERESA BURKARD
Comments: Not reported
SIC Code: Not reported
County: NY005
Municipal: Not reported
Previous EPA Id: Not reported
Gen Flag: Not reported
Trans Flag: Not reported
TSDF Flag: Not reported
Name Change: Not reported
Date Change: Not reported

Manifest:
Manifest Number: 014466080JJK
EPA ID: NYP004818714
Date Shipped: 8/5/2015
TSDF EPA ID: NJD002200046
Transporter EPA ID: NJ0000027193
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported

CON EDISON (Continued) **S120674990**

Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

AB209 **CON EDISON** **NY MANIFEST** **S119077016**
East **W 172ND ST & ELDER AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.217 mi.
1146 ft. **Site 7 of 7 in cluster AB**

Relative:
Higher

Actual:
46 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004818714
Facility Status:	Not reported
Location Address 1:	W 172 ST & ELDER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004818714
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported

CON EDISON (Continued) **S119077016**

Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	08/05/2015
Trans1 Recv Date:	08/05/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/07/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004818714
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	014466080JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	7000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

CON EDISON (Continued) **S119077016**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AO210 **NYC DEPT OF EDUCATION - PS 50X** **RCRA-SQG** **1004755971**
NW **1550 VYSE AVE** **NY Spills** **NY0000903526**
1/8-1/4 **BRONX, NY 10460** **NY MANIFEST**
0.218 mi.
1151 ft. **Site 1 of 4 in cluster AO**

Relative:
Higher

Actual:
63 ft.

RCRA-SQG:

Date form received by agency:	01/29/2014
Facility name:	NYC DEPT OF EDUCATION - PS 50X
Facility address:	1550 VYSE AVE BRONX, NY 10460
EPA ID:	NY0000903526
Mailing address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact:	ALEXANDER LEMPERT
Contact address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	718-472-8501
Contact email:	ALEMPERT@NYCSCA.ORG
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NYC BOARD OF EDUCATION
Owner/operator address:	28-11 QUEENS PLZ N LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	718-349-5600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NYC BOARD OF EDUCATION
Owner/operator address:	28-11 QUEENS PLZ N LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	718-349-5600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

NYC DEPT OF EDUCATION - PS 50X (Continued) **1004755971**

Owner/operator name: NYC DEPT OF EDUCATION
Owner/operator address: THOMSON AVE
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: 718-472-8501
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 03/03/1914
Owner/Op end date: Not reported

Owner/operator name: NYC DEPT OF SCHOOL FACILITIES
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: 03/03/1914
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: B004
. Waste name: B004

. Waste code: B007
. Waste name: B007

Historical Generators:
Date form received by agency: 01/01/2007
Site name: NYC BD OF ED - PUBLIC SCHOOL 50 BRONX
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Site name: NYC BD OF ED - PUBLIC SCHOOL 50 BRONX

NYC DEPT OF EDUCATION - PS 50X (Continued) **1004755971**

Classification: Not a generator, verified

Date form received by agency: 07/27/1995
Site name: NYC BD OF ED - PUBLIC SCHOOL 50 BRONX
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

SPILLS:
Facility ID: 1109764
Facility Type: ER
Spill Number: 1109764
DER Facility ID: 412026
Site ID: 457546
DEC Region: 2
Closed Date: 2011-11-09
Spill Cause: Equipment Failure
Spill Class: Not reported
SWIS: 0301
Spill Date: 2011-11-03
Investigator: vszhune
Referred To: Not reported
Reported to Dept: 2011-11-03
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial Vehicle
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2011-11-03
Spill Record Last Update: 2011-11-09
Spiller Name: Not reported
Spiller Company: FS PETRO
Spiller Address: Not reported
Spiller Company: 999
Contact Name: JIM CAREY
DEC Memo: "11/03/11- Zhune responded to this site. Oil company (F&S Petroleum) while doing delivery at School PS 50 the hose broke. Approximately 20 to 25 gallons of oil # went to the street to the curb and probably some spill to the catch basin located at E 173 Street. Oil company cleaned mostly the spill. Speedy-dry was left along the curb. 11/04/11- Zhune spoke to Jim Carey fom oil company F&S Petroleum 347-597-2821. Rite-Way is goimg to the site to remove the speedy-dry along the curb and clean the catch basin. Rite-Way-Pete Mirabild718-855-7272. 11/09/11- F&S Petroleum Corporation sent a letter including invoices. On Friday 11/4/2011. Riteway Tank Maintenance cleaned via vac-truck the storm drain located at Vyse Avenue and East 172nd street. In addition. The coating of absorbent

NYC DEPT OF EDUCATION - PS 50X (Continued) **1004755971**

material curbside was removed. The material removed by F&S on 11/3/2011 was disposed of by Milro Environmental of Freeport, NY. Spill closed. "

Remarks: "spill to driveway and street/clean up underway"

All Materials:

Site ID:	457546
Operable Unit ID:	1207674
Operable Unit:	01
Material ID:	2204968
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

NY MANIFEST:

Country:	USA
EPA ID:	NY0000903526
Facility Status:	Not reported
Location Address 1:	1550 VYSE AVENUE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NY0000903526
Mailing Name:	NEW YORK CITY B O E
Mailing Contact:	JACK BRUCCULERI
Mailing Address 1:	1550 VYSE AVE
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10460
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7183495600

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	07/28/2014
Trans1 Recv Date:	07/28/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/07/2014

NYC DEPT OF EDUCATION - PS 50X (Continued) **1004755971**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000903526
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	MAC300017498
TSDF ID 2:	Not reported
Manifest Tracking Number:	000646113VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	Y
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H039
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1250
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	5
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Waste Code:	Not reported
Waste Code 1_2:	B007
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AO211 **PUBLIC SCHOOL 50 - BRONX X050** **NY AST** **A100412829**
NW **1550 VYSE AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.218 mi.
1151 ft. **Site 2 of 4 in cluster AO**

Relative:
Higher

Actual:
63 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-606238
Program Type:	PBS
UTM X:	593827.16647
UTM Y:	4520952.41784
Expiration Date:	07/09/2021
Site Type:	School

PUBLIC SCHOOL 50 - BRONX X050 (Continued) **A100412829**

Affiliation Records:

Site Id:	28102
Affiliation Type:	Facility Owner
Company Name:	NYC DEPARTMENT OF EDUCATION
Contact Type:	MANAGER, FUEL DIVISION
Contact Name:	MUNENDRA SHARMA
Address1:	44-36 VERNON BLVD.
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2017-10-11

Site Id:	28102
Affiliation Type:	Mail Contact
Company Name:	NYC DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	MUNENDRA SHARMA
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2:	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-17

Site Id:	28102
Affiliation Type:	Facility Operator
Company Name:	PUBLIC SCHOOL 50 - BRONX X050
Contact Type:	Not reported
Contact Name:	GERALD MCDONALS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-2535
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	2016-04-05

Site Id:	28102
Affiliation Type:	Emergency Contact
Company Name:	NYC DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	KEN MAHADEO

PUBLIC SCHOOL 50 - BRONX X050 (Continued) **A100412829**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 210-7918
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-10-13

Tank Info:

Tank Number:	001
Tank Id:	61146
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
G02 - Tank Secondary Containment - Vault (w/access)
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
E00 - Piping Secondary Containment - None
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/2000
Capacity Gallons:	7500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	LSZINOMA
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

Tank Number:	002
Tank Id:	61147
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

PUBLIC SCHOOL 50 - BRONX X050 (Continued) **A100412829**

Equipment Records:

K01 - Spill Prevention - Catch Basin
I02 - Overfill - High Level Alarm
E00 - Piping Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
G02 - Tank Secondary Containment - Vault (w/access)
L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/2000
Capacity Gallons:	7500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	LSZINOMA
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

AP212 **GETTY PETROLEUM CORP 00276** **RCRA NonGen / NLR** **1001215596**
North **1720 BOONE AVE & E 174TH ST** **ICIS** **NYR000047670**
1/8-1/4 **BRONX, NY 10460** **FINDS**
0.221 mi. **ECHO**
1167 ft. **Site 1 of 3 in cluster AP** **NY MANIFEST**

Relative: Higher
Actual: 32 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	GETTY PETROLEUM CORP 00276
Facility address:	1720 BOONE AVE & E 174TH ST BRONX, NY 10460
EPA ID:	NYR000047670
Mailing address:	JERICHO TNPK JERICHO, NY 11753
Contact:	DALE HOLDEN
Contact address:	JERICHO TNPK JERICHO, NY 11753
Contact country:	US
Contact telephone:	516-286-2600
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	GETTY PETROLEUM CORP
Owner/operator address:	125 JERICHO TNPK

GETTY PETROLEUM CORP 00276 (Continued) **1001215596**

JERICHO, NY 11753
Owner/operator country: US
Owner/operator telephone: 516-286-2600
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GETTY PETROLEUM CORP
Owner/operator address: 125 JERICHO TNPK
JERICHO, NY 11753
Owner/operator country: US
Owner/operator telephone: 516-286-2600
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: GETTY PETROLEUM CORP 00276
Classification: Not a generator, verified

Date form received by agency: 12/09/1997
Site name: GETTY PETROLEUM CORP 00276
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS

GETTY PETROLEUM CORP 00276 (Continued) **1001215596**

CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

ICIS:

Enforcement Action ID:	02-1999-7503
FRS ID:	110008101366
Action Name:	LEEMILTS PETROLEUM INC
Facility Name:	GETTY PETROLEUM CORP 00276
Facility Address:	1720 BOONE AVE & E 174TH ST BRONX, NY 10460
Enforcement Action Type:	RCRA 9006 AO For Comp And/Or Pen (UST)
Facility County:	BRONX
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	9006
Facility SIC Code:	5541
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	40.835235
Longitude in Decimal Degrees:	-73.883796
Permit Type Desc:	Not reported
Program System Acronym:	8471
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Facility Name:	GETTY PETROLEUM CORP 00276
Address:	1720 BOONE AVE & E 174TH ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5541

Facility Name:	GETTY PETROLEUM CORP 00276
Address:	1720 BOONE AVE & E 174TH ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5541

FINDS:

Registry ID: 110008101366

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

GETTY PETROLEUM CORP 00276 (Continued) **1001215596**

corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001215596
Registry ID:	110008101366
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008101366

NY MANIFEST:

Country:	USA
EPA ID:	NYR000047670
Facility Status:	Not reported
Location Address 1:	1720 BOONE AVE & E 174TH ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000047670
Mailing Name:	GETTY PETROLEUM CORP
Mailing Contact:	STEVE GORDON
Mailing Address 1:	1720 BOONE AVE & E 174TH ST
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10460
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	9999999999

NY MANIFEST:

Document ID:	CTF0510798
Manifest Status:	Not reported
seq:	01

GETTY PETROLEUM CORP 00276 (Continued) **1001215596**

Year:	1998
Trans1 State ID:	CT23922A
Trans2 State ID:	Not reported
Generator Ship Date:	01/06/1998
Trans1 Recv Date:	01/06/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/07/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000047670
Trans1 EPA ID:	CTD021816889
Trans2 EPA ID:	Not reported
TSDF ID 1:	CTD021816889
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00220
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AK213 **CON EDISON** **NY Spills** **S110138939**
SW **1146 BRYANT AVE** **NY MANIFEST** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.221 mi.
1168 ft. **Site 3 of 5 in cluster AK**

Relative:
Higher

Actual:
60 ft.

SPILLS:

Facility ID:	0910226
Facility Type:	ER
Spill Number:	0910226
DER Facility ID:	371889
Site ID:	422974
DEC Region:	2
Closed Date:	2010-01-19
Spill Cause:	Abandoned Drums
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2009-12-15
Investigator:	HRAHMED
Referred To:	Not reported
Reported to Dept:	2009-12-15
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-12-15
Spill Record Last Update:	2010-01-19
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	SHERIS GERGES
DEC Memo:	"12/15/09- Zhune called Sheris Gerges from NYSDEP 917-769-0847. He said DEP hazmat tested the material in the drum. They found waste oil. Drum was labeled. 01/19/10-HRAHMED-No drum found during DRUM RUN on 01/15/10. DEP and Sanitation were notified. This case is closed. "
Remarks:	"abandon drum found; secured and labeled"

All Materials:

Site ID:	422974
Operable Unit ID:	1178792
Operable Unit:	01
Material ID:	2172303
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	27.50
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

CON EDISON (Continued) **S110138939**

NY MANIFEST:

Country:	USA
EPA ID:	NYP004593828
Facility Status:	Not reported
Location Address 1:	1146 BRYANT AVE
Code:	BP
Location Address 2:	SB 1129
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004593828
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/11/2014
Trans1 Recv Date:	07/11/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004593828
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503609GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported

CON EDISON (Continued) **S110138939**

Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AK214 **SANFORD ND LLC** **NY AST** **A100433673**
SW **1142 BRYANT AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.224 mi.
1183 ft. **Site 4 of 5 in cluster AK**

Relative:
Higher

Actual:
61 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregistered
Facility Id:	2-612686
Program Type:	PBS
UTM X:	Not reported
UTM Y:	Not reported
Expiration Date:	N/A
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	541961
Affiliation Type:	Facility Owner
Company Name:	SANFORD ND LLC
Contact Type:	OWNER
Contact Name:	DENNIS DIONISIOU
Address1:	87 GLEN COVE ROAD
Address2:	Not reported
City:	GREENVALE
State:	NY
Zip Code:	11548
Country Code:	001
Phone:	(516) 625-8200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2017-03-10

Site Id:	541961

SANFORD ND LLC (Continued) **A100433673**

Affiliation Type:	Mail Contact
Company Name:	SANFORD ND LLC
Contact Type:	Not reported
Contact Name:	DENNIS DIONISIOU
Address1:	87 GLEN COVE ROAD
Address2:	Not reported
City:	GREENVALE
State:	NY
Zip Code:	11548
Country Code:	001
Phone:	(917) 686-8064
EMail:	DENNISDIONISIOU@GMAIL.COM
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2017-03-10

Site Id:	541961
Affiliation Type:	Facility Operator
Company Name:	SANFORD ND LLC
Contact Type:	Not reported
Contact Name:	RAYMOND
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 686-8064
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2017-03-10

Site Id:	541961
Affiliation Type:	Emergency Contact
Company Name:	SANFORD ND LLC
Contact Type:	Not reported
Contact Name:	RAYMOND
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 376-8775
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MRBARROW
Date Last Modified:	2017-03-10

Tank Info:

Tank Number:	001
Tank Id:	267077

Equipment Records:

C01 - Pipe Location - Aboveground

SANFORD ND LLC (Continued) **A100433673**

L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Location:	4
Tank Type:	Steel Tank in Concrete
Tank Status:	Unregistered
Pipe Model:	Not reported
Install Date:	01/30/1950
Capacity Gallons:	1080
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MRBARROW
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

AD215 **CON EDISON** **NY MANIFEST** **S117065499**
SW **1175 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.224 mi.
1183 ft. **Site 2 of 3 in cluster AD**

Relative:
Higher

Actual:
66 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004580619
Facility Status:	Not reported
Location Address 1:	1175 BRYANT AVE
Code:	BP
Location Address 2:	SB 1131
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004580619
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

CON EDISON (Continued) **S117065499**

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	06/30/2014
Trans1 Recv Date:	06/30/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/30/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004580619
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503460GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AD216 **CON EDISON** **NY MANIFEST** **S117537892**
SW **1175 BRYANT AV** **N/A**
1/8-1/4 **BRONX, NY 10461**
0.224 mi.
1183 ft. **Site 3 of 3 in cluster AD**

Relative:
Higher

Actual:
66 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004705059
Facility Status:	Not reported
Location Address 1:	1175 BRYANT AV
Code:	BP
Location Address 2:	SB1174
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10461
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004705059
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	12/10/2014
Trans1 Recv Date:	12/10/2014
Trans2 Recv Date:	12/15/2014
TSD Site Recv Date:	12/15/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004705059
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002564648GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S117537892**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AJ217 **ACE CLEANERS** **ICIS** **1009719507**
SE **1496A WESTCHESTER AVE** **US AIRS** **N/A**
1/8-1/4 **BRONX, NY 10472** **NY DRYCLEANERS**
0.224 mi.
1184 ft. **Site 3 of 5 in cluster AJ**

Relative: **Higher**
Actual: **27 ft.**

ICIS:

Enforcement Action ID:	NY000A0000260070080400305
FRS ID:	110027923914
Action Name:	ACE CLEANERS 36005R436100305
Facility Name:	ACE CLEANERS
Facility Address:	1496A WESTCHESTER AVE BRONX, NY 104722904
Enforcement Action Type:	Notice of Violation
Facility County:	BRONX
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	7216
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	40.828502
Longitude in Decimal Degrees:	-73.880213
Permit Type Desc:	Not reported
Program System Acronym:	NY0000002600700804
Facility NAICS Code:	812320
Tribal Land Code:	Not reported

US AIRS MINOR:

Envid:	1009719507
Region Code:	02

ACE CLEANERS (Continued) **1009719507**

Programmatic ID: AIR NY0000002600700804
Facility Registry ID: 110027923914
D and B Number: Not reported
Primary SIC Code: 7216
NAICS Code: 812320
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR NY0000002600700804
Facility Registry ID: 110027923914
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2009-09-29 00:00:00
Activity Status Date: 2009-09-29 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

US AIRS MINOR:
Envid: 1009719507
Region Code: 02
Programmatic ID: AIR NY0000002600700804
Facility Registry ID: 110027923914
D and B Number: Not reported
Primary SIC Code: 7216
NAICS Code: 812320
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR NY0000002600700804
Facility Registry ID: 110027923914
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2009-09-29 00:00:00
Activity Status Date: 2009-09-29 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

DRYCLEANERS:
Facility ID: 2-6007-00804
Phone Number: 718-328-1469
Region: Not reported
Registration Effective Date: 11/10/2006
Inspection Date: 07MAY23

ACE CLEANERS (Continued) **1009719507**

Install Date:	06
Drop Shop:	Not reported
Shutdown:	Not reported
Alternate Solvent:	Not reported
Current Business:	Not reported

AC218 **EVERGREEN ESTATE HDFC** **NY AST** **A100383093**
SSE **1165 EVERGREEN AVE.** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.224 mi.
1185 ft. **Site 9 of 9 in cluster AC**

Relative:
Higher

Actual:
21 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-612111
Program Type:	PBS
UTM X:	594365.67120
UTM Y:	4520204.90556
Expiration Date:	12/27/2021
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	488283
Affiliation Type:	Facility Owner
Company Name:	EVERGREEN ESTATE HDFC
Contact Type:	EXEC VP
Contact Name:	PAUL A MOORE
Address1:	494 8TH AVE.
Address2:	Not reported
City:	NY
State:	NY
Zip Code:	10001
Country Code:	001
Phone:	(212) 563-0310
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-27

Site Id:	488283
Affiliation Type:	Mail Contact
Company Name:	URBAN HOME OWNERSHIP CORP
Contact Type:	Not reported
Contact Name:	PAUL MOORE
Address1:	494 8TH AVE.
Address2:	19TH FLOOR
City:	NY
State:	NY
Zip Code:	10001
Country Code:	001
Phone:	(212) 563-0310
EMail:	PAULMOORE@URBANHOMEOWNERSHIPCORP.COM
Fax Number:	Not reported
Modified By:	JAAVERSA
Date Last Modified:	2017-01-28

EVERGREEN ESTATE HDFC (Continued) **A100383093**

Site Id:	488283
Affiliation Type:	Facility Operator
Company Name:	EVERGREEN ESTATE HDFC
Contact Type:	Not reported
Contact Name:	EDDIE IRIZARRY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 254-0289
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-27

Site Id:	488283
Affiliation Type:	Emergency Contact
Company Name:	EVERGREEN ESTATE HDFC
Contact Type:	Not reported
Contact Name:	AWILDA AVILES
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 842-9503
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2017-01-27

Tank Info:

Tank Number:	001
Tank Id:	250027

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
C03 - Pipe Location - Aboveground/Underground Combination
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
I01 - Overfill - Float Vent Valve
K00 - Spill Prevention - None
G02 - Tank Secondary Containment - Vault (w/access)
L00 - Piping Leak Detection - None

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported

EVERGREEN ESTATE HDFC (Continued) **A100383093**

Install Date:	09/22/1972
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

---

219 SW 1/8-1/4 0.225 mi. 1187 ft. **HOME STREET REALTY CORP.** **NY AST** **U003390052**
1001 HOME STREET **N/A**
BRONX, NY 10459

Relative: Higher
Actual: 69 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-267104
Program Type:	PBS
UTM X:	593653.03659
UTM Y:	4520349.85014
Expiration Date:	08/17/2022
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	11070
Affiliation Type:	Facility Owner
Company Name:	HOME STREET REALTY CORP.
Contact Type:	MANAGER
Contact Name:	FRANK LOPIANO
Address1:	4419 3RD AVE SUITE 4A
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10457
Country Code:	001
Phone:	(718) 228-0020
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-09-06

Site Id:	11070
Affiliation Type:	Mail Contact
Company Name:	HOME ST. REALTY CORPORATION
Contact Type:	Not reported
Contact Name:	HYSEN MEHMETAJ
Address1:	4419 THIRD AVENUE
Address2:	SUITE 4A
City:	BRONX
State:	NY
Zip Code:	10457
Country Code:	001
Phone:	(718) 228-0020

HOME STREET REALTY CORP. (Continued) **U003390052**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-09-06

Site Id:	11070
Affiliation Type:	Facility Operator
Company Name:	HOME STREET REALTY CORP.
Contact Type:	Not reported
Contact Name:	GERALDO COSME
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 600-2240
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	2012-09-13

Site Id:	11070
Affiliation Type:	Emergency Contact
Company Name:	HOME STREET REALTY CORP.
Contact Type:	Not reported
Contact Name:	HYSEN MEHMETAZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 402-4200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-09-06

Tank Info:

Tank Number:	001
Tank Id:	18244
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None

HOME STREET REALTY CORP. (Continued) **U003390052**

J02 - Dispenser - Suction Dispenser
C01 - Pipe Location - Aboveground
I05 - Overfill - Vent Whistle

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/01/1913
Capacity Gallons:	2000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MFLEONAR
Last Modified:	09/06/2017
Material Name:	#2 fuel oil (on-site consumption)

AJ220 **P O M P** **NY AST** **U003389790**
SE **1184 EVERGREEN AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.225 mi.
1187 ft. **Site 4 of 5 in cluster AJ**

Relative:
Higher

Actual:
23 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-285269
Program Type:	PBS
UTM X:	594369.41664
UTM Y:	4520273.12626
Expiration Date:	07/20/2022
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	12676
Affiliation Type:	Facility Owner
Company Name:	NEWSTART PROPERTIES INC.
Contact Type:	ASSISTANT TO DIRECTOR OF OPERATIONS
Contact Name:	SHARON LESTER
Address1:	1601 BRONXDALE AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10462
Country Code:	001
Phone:	(718) 518-8000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-08-01

Site Id:	12676
Affiliation Type:	Mail Contact
Company Name:	LANGSAM PROPERTIES SERVICE CORP.
Contact Type:	Not reported
Contact Name:	SHARON LESTER

P O M P (Continued) **U003389790**

Address1:	1601 BRONXDALE AVENUE
Address2:	SUITE 201
City:	BRONX
State:	NY
Zip Code:	10462
Country Code:	001
Phone:	(718) 518-8000
EMail:	SHARONL@LANGSAMPROP.COM
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-07-27

Site Id:	12676
Affiliation Type:	Facility Operator
Company Name:	P O M P
Contact Type:	Not reported
Contact Name:	RAFAEL MARTE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 559-3724
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-07-27

Site Id:	12676
Affiliation Type:	Emergency Contact
Company Name:	NEWSTART PROPERTIES INC.
Contact Type:	Not reported
Contact Name:	RAFAEL MARTE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 559-3724
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-07-27

Tank Info:

Tank Number:	001
Tank Id:	17559
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

L00 - Piping Leak Detection - None
H99 - Tank Leak Detection - Other

P O M P (Continued) **U003389790**

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
F06 - Pipe External Protection - Wrapped
J02 - Dispenser - Suction Dispenser
G02 - Tank Secondary Containment - Vault (w/access)
I05 - Overfill - Vent Whistle

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/06/1989
Capacity Gallons:	5000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MFLEONAR
Last Modified:	07/27/2017
Material Name:	#2 fuel oil (on-site consumption)

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221 ESE 1/8-1/4 0.226 mi. 1191 ft. **CONSOLIDATED EDISON**
1249 ELDER AVE SB19348
BRONX, NY

NY MANIFEST **1009242571**
N/A

Relative: Higher
Actual: 42 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004117529
Facility Status:	Not reported
Location Address 1:	1249 ELDER AVE SB19348
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004117529
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address 1:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124602808

CONSOLIDATED EDISON (Continued) **1009242571**

NY MANIFEST:

Document ID:	NYE1318059
Manifest Status:	Not reported
seq:	Not reported
Year:	2004
Trans1 State ID:	46235JM
Trans2 State ID:	Not reported
Generator Ship Date:	01/19/2004
Trans1 Recv Date:	01/19/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/20/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004117529
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980593
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00591
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AL222 **LONGFELLOW AVE-HDFS INC** **NY AST** **A100383074**
North **1690 LONGFELLOW AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.226 mi.
1192 ft. **Site 3 of 3 in cluster AL**

Relative:
Higher

Actual:
52 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active

LONGFELLOW AVE-HDFS INC (Continued) **A100383074**

Facility Id:	2-110353
Program Type:	PBS
UTM X:	594022.53182
UTM Y:	4521048.46685
Expiration Date:	05/07/2022
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	3372
Affiliation Type:	Facility Owner
Company Name:	1690 LONGFELLOW AVE HDFC
Contact Type:	PRESIDENT
Contact Name:	PAUL MOORE
Address1:	494 8TH AVENUE 19TH FL
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10001
Country Code:	001
Phone:	(212) 563-0310
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-06

Site Id:	3372
Affiliation Type:	Mail Contact
Company Name:	URBAN HOME OWNERSHIP CORP.
Contact Type:	Not reported
Contact Name:	PAUL MOORE
Address1:	494 8TH AVENUE
Address2:	19TH FLOOR
City:	NEW YORK
State:	NY
Zip Code:	10001
Country Code:	001
Phone:	(212) 563-0310
EMail:	PAULMOORE@URBANHOMEOWNERSHIPCORP.COM
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-06

Site Id:	3372
Affiliation Type:	Facility Operator
Company Name:	LONGFELLOW AVE-HDFS INC
Contact Type:	Not reported
Contact Name:	MIGUEL SANCHEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 883-0829
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-06

LONGFELLOW AVE-HDFS INC (Continued) **A100383074**

Site Id:	3372
Affiliation Type:	Emergency Contact
Company Name:	1690 LONGFELLOW AVE HDFC
Contact Type:	Not reported
Contact Name:	MARIA MEIGHAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 991-0380
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-06

Tank Info:

Tank Number:	001
Tank Id:	4823

Equipment Records:

I05 - Overfill - Vent Whistle
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
I01 - Overfill - Float Vent Valve
K00 - Spill Prevention - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
L09 - Piping Leak Detection - Exempt Suction Piping
H00 - Tank Leak Detection - None

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	06/01/1974
Capacity Gallons:	5000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MFLEONAR
Last Modified:	10/06/2017
Material Name:	#2 fuel oil (on-site consumption)

AF223 **NYCDEP DERTA** **NY MANIFEST** **S122482811**
South **1120 BRONX RIVER AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.229 mi.
1210 ft. **Site 3 of 3 in cluster AF**

Relative:
Higher

Actual:
16 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP000974202
Facility Status:	Not reported
Location Address 1:	1120 BRONX RIVER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP000974202
Mailing Name:	NYCDEP DERTA
Mailing Contact:	NYCDEP DERTA
Mailing Address 1:	9605 HORACE HARDING EXPRESSWAY
Mailing Address 2:	Not reported
Mailing City:	QUEENS
Mailing State:	NY
Mailing Zip:	11373
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NYD064748304
Trans2 State ID:	NJD080631369
Generator Ship Date:	03/05/2018
Trans1 Recv Date:	03/05/2018
Trans2 Recv Date:	03/09/2018
TSD Site Recv Date:	03/13/2018
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP000974202
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	009419666FLE
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

NYCDEP DERTA (Continued) **S122482811**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Waste Code:	D001
Waste Code 1_2:	D035
Waste Code 1_3:	F003
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY MANIFEST: detail in the EDR Site Report.

224
SSE
1/8-1/4
0.231 mi.
1222 ft.

1130-1146 COLGATE AVE ASSOC **NY AST** **A100175521**
1130-1146 COLGATE AVENUE **N/A**
BRONX, NY 10472

Relative:
Higher

Actual:
20 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-605238
Program Type:	PBS
UTM X:	594312.39340
UTM Y:	4520106.09508
Expiration Date:	02/21/2016
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	27107
Affiliation Type:	Facility Owner
Company Name:	1130-1146 COLGATE AVE ASSOC. % RMA
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	215 EAST 164TH STREET
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10456
Country Code:	001
Phone:	(718) 538-5000
EMail:	Not reported
Fax Number:	Not reported

1130-1146 COLGATE AVE ASSOC (Continued) **A100175521**

Modified By:	HDDUPIGN
Date Last Modified:	2015-11-06
Site Id:	27107
Affiliation Type:	Mail Contact
Company Name:	RENTAL & MANAGEMENT ASSOCIATES
Contact Type:	Not reported
Contact Name:	MR. PHILIP SCHORR
Address1:	215 EAST 164TH STREET
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10456
Country Code:	001
Phone:	(718) 538-5000
EMail:	RMABRONX@AOL.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-04-12
Site Id:	27107
Affiliation Type:	Facility Operator
Company Name:	1130-1146 COLGATE AVE ASSOC
Contact Type:	Not reported
Contact Name:	GERARDO ROSARIO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 503-2012
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-04-12
Site Id:	27107
Affiliation Type:	Emergency Contact
Company Name:	1130-1146 COLGATE AVE ASSOC. % RMA
Contact Type:	Not reported
Contact Name:	MR. PHILIP SCHORR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 886-0085
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2010-04-12

Tank Info:

Tank Number:	1

1130-1146 COLGATE AVE ASSOC (Continued) **A100175521**

Tank Id: 59605
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

L00 - Piping Leak Detection - None
J03 - Dispenser - Gravity
H00 - Tank Leak Detection - None
E00 - Piping Secondary Containment - None
K00 - Spill Prevention - None
F01 - Pipe External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
G02 - Tank Secondary Containment - Vault (w/access)
I05 - Overfill - Vent Whistle

Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 03/10/1989
Capacity Gallons: 4000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NRLOMBAR
Last Modified: 04/14/2017
Material Name: #2 fuel oil (on-site consumption)

Tank Number: 2
Tank Id: 233809
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

L00 - Piping Leak Detection - None
J03 - Dispenser - Gravity
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
G02 - Tank Secondary Containment - Vault (w/access)
I05 - Overfill - Vent Whistle

Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - In Place

1130-1146 COLGATE AVE ASSOC (Continued) **A100175521**

Pipe Model:	Not reported
Install Date:	03/10/1989
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/23/2015
Register:	True
Modified By:	HDDUPIGN
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

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225 SSW 1/8-1/4 0.232 mi. 1227 ft.

NYCT - WHITLOCK AVENUE STATION
WHITLOCK AVE & LOWELL ST
BRONX, NY 10459

RCRA-CESQG 1007119378
NJ MANIFEST NYR000121715
NY MANIFEST

Relative: Higher

Actual: 32 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	NYCT - WHITLOCK AVENUE STATION
Facility address:	WHITLOCK AVE & LOWELL ST BRONX, NY 10459
EPA ID:	NYR000121715
Mailing address:	BROADWAY - 2ND FLOOR NEW YORK, NY 10004
Contact:	THOMAS A ABDALLAH
Contact address:	BROADWAY - 2ND FLOOR NEW YORK, NY 10004
Contact country:	US
Contact telephone:	646-252-3500
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYCT
Owner/operator address:	UNKNOWN UNKNOWN, NY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Owner/operator extension: Not reported
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1920
Owner/Op end date: Not reported

Owner/operator name: MTA NYCT
Owner/operator address: UNKNOWN
UNKNOWN, NY 99999
Owner/operator country: US
Owner/operator telephone: 212-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1920
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: NYCT - WHITLOCK AVENUE STATION
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/09/2004
Site name: NYCT - WHITLOCK AVENUE STATION
Classification: Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

NJ MANIFEST:
EPA Id: NYR000121715
Mail Address: BROADWAY - 2ND FLOOR
Mail City/State/Zip: NEW YORK, NY 10004
Facility Phone: Not reported
Emergency Phone: Not reported
Contact: THOMAS A ABDALLAH

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	000200241WAS
EPA ID:	NYR000121715
Date Shipped:	08/30/2010
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/30/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/30/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	1800 P

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Manifest Number:	000202172WAS
EPA ID:	NYR000121715
Date Shipped:	3/1/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	400.00 Pounds

Manifest Number:	000201895WAS
EPA ID:	NYR000121715
Date Shipped:	11/24/2010
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/24/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/24/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	800 P

Manifest Number:	000457241WAS
EPA ID:	NYR000121715
Date Shipped:	2/21/2012
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	300.00 Pounds

Manifest Number:	000202125WAS
EPA ID:	NYR000121715
Date Shipped:	2/1/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	300.00 Pounds

Manifest Number:	000199711WAS
EPA ID:	NYR000121715
Date Shipped:	05/07/2010
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/07/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/07/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	1600 P

Manifest Number:	000423439WAS
EPA ID:	NYR000121715
Date Shipped:	6/3/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	100.00 Pounds

Manifest Number:	000199635WAS
EPA ID:	NYR000121715

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Date Shipped:	03/30/2010
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/30/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/30/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	900 P

Manifest Number:	000199333WAS
EPA ID:	NYR000121715
Date Shipped:	07/09/2010
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/09/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/09/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	4500 P

NY MANIFEST:

Country:	USA
EPA ID:	NYR000121715
Facility Status:	Not reported
Location Address 1:	WHITLOCK AVE & LOWELL ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000121715
Mailing Name:	NYC TRANSIT AUTHORITY CAP MANAGE
Mailing Contact:	JOHN WILLIS
Mailing Address 1:	2 BROADWAY
Mailing Address 2:	ROOM A27.64
Mailing City:	NEW YORK

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Mailing State:	NY
Mailing Zip:	10004
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	6462523500

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2012
Trans1 State ID:	NYD046765574
Trans2 State ID:	Not reported
Generator Ship Date:	02/21/2012
Trans1 Recv Date:	02/21/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/22/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000121715
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	000457241WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H111
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

NYCT - WHITLOCK AVENUE STATION (Continued) **1007119378**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AQ226 **SPECIALTY MOTOR CARS INC** **NY SWF/LF** **S108146132**
South **1125 BRONX RIVER AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.235 mi.
1240 ft. **Site 1 of 4 in cluster AQ**

Relative:
Higher

Actual:
12 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7188933333
Owner Name:	Specialty Motor Cars Inc
Owner Type:	Private
Owner Address:	1125 Bronx River Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 10472
Owner Email:	Not reported
Owner Phone:	7188933333
Contact Name:	Kinstantino Pashos
Contact Address:	1125 Bronx River Avenue
Contact Addr2:	Not reported
Contact City,St,Zip:	Bronx, NY 10472
Contact Email:	Not reported
Contact Phone:	7188933333
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	[7069206]
Active:	No
East Coordinate:	594160
North Coordinate:	4520064
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Specialty Motor Cars Inc
Operator Type:	Private
Laste Date:	Not reported

AR227 **CON EDISON - MANHOLE M1925** **NY MANIFEST** **S120958489**
ENE **1341 BOYNTON AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.237 mi.
1249 ft. **Site 1 of 2 in cluster AR**

Relative:
Higher

Actual:
46 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004941678
Facility Status:	Not reported
Location Address 1:	1341 BOYNTON AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX

CON EDISON - MANHOLE M1925 (Continued) **S120958489**

Location State: NY
Location Zip: 10472
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004941678
Mailing Name: CON EDISON - MANHOLE M1925
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL 15TH FL NE
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AS228 **1246 WESTCHESTER AVE HDFC** **NY AST** **A100173660**
SSW **1246 WESTCHESTER AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.237 mi.
1251 ft. **Site 1 of 2 in cluster AS**

Relative:
Higher

Actual:
55 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-604909
Program Type: PBS
UTM X: 593774.75109
UTM Y: 4520122.36965
Expiration Date: 12/15/2020
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 26778
Affiliation Type: Facility Owner
Company Name: 1246-46 WESTCHESTER AVE HDFC
Contact Type: ENERGY MANAGER
Contact Name: STEVEN BASTIAN
Address1: 87-14 116TH ST
Address2: Not reported
City: RICHMOND HILL
State: NY
Zip Code: 11418
Country Code: 001
Phone: (718) 463-1200
EMail: Not reported
Fax Number: Not reported
Modified By: NTFREEMA
Date Last Modified: 2015-11-02

Site Id: 26778
Affiliation Type: Mail Contact
Company Name: THE WAVECREST MANAGEMENT TEAM LTD

1246 WESTCHESTER AVE HDFC (Continued) **A100173660**

Contact Type:	Not reported
Contact Name:	CHRISTINA PIMENTEL
Address1:	87-14 116TH STREET
Address2:	Not reported
City:	RICHMOND HILL
State:	NY
Zip Code:	11418
Country Code:	001
Phone:	(718) 463-1200
EMail:	CPIMENTEL@TWMT.NET
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-07-18

Site Id:	26778
Affiliation Type:	Facility Operator
Company Name:	1246 WESTCHESTER AVE HDFC
Contact Type:	Not reported
Contact Name:	HOPE BURGESS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-1064
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-11-02

Site Id:	26778
Affiliation Type:	Emergency Contact
Company Name:	1246 WESTCHESTER AVE HDFC
Contact Type:	Not reported
Contact Name:	CHRISTINA PIMENTEL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 463-1200
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2012-07-18

Tank Info:

Tank Number:	001
Tank Id:	59102
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

1246 WESTCHESTER AVE HDFC (Continued) **A100173660**

A03 - Tank Internal Protection - Fiberglass Liner (FRP)
F01 - Pipe External Protection - Painted/Asphalt Coating
G99 - Tank Secondary Containment - Other
K00 - Spill Prevention - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
J01 - Dispenser - Pressurized Dispenser
E00 - Piping Secondary Containment - None
I02 - Overfill - High Level Alarm
C03 - Pipe Location - Aboveground/Underground Combination
G04 - Tank Secondary Containment - Double-Walled (Underground)
H99 - Tank Leak Detection - Other
L00 - Piping Leak Detection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1950
Capacity Gallons:	4500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

AQ229 **CON EDISON** **NY MANIFEST** **S117737320**
South **1123 BRONX RIVER AVENUE F/O** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.237 mi.
1252 ft. **Site 2 of 4 in cluster AQ**

Relative:
Higher

Actual:
12 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004635819
Facility Status:	Not reported
Location Address 1:	1123 BRONX RIVER AVENUE F/O
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004635819
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA

CON EDISON (Continued) **S117737320**

Mailing Phone: Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/22/2014
Trans1 Recv Date:	08/22/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/28/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004635819
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563092GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	3000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AQ230 **JOHN CIVETTA & SONS, INC** **NY UST** **U000409599**
South **1123 BRONX RIVER AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.237 mi.
1252 ft. **Site 3 of 4 in cluster AQ**

Relative:
Higher

Actual:
12 ft.

UST:

Id/Status:	2-356840 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	594161.39482
UTM Y:	4520056.43576
Site Type:	Other

Affiliation Records:

Site Id:	17841
Affiliation Type:	Facility Owner
Company Name:	JOHN CIVETTA & SONS, INC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1123 BRONX RIVER AV
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10472
Country Code:	001
Phone:	(212) 589-9000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2004-12-14

Site Id:	17841
Affiliation Type:	Mail Contact
Company Name:	JOHN CIVETTA & SONS, INC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1123 BRONX RIVER AV
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10472
Country Code:	001
Phone:	(212) 589-9000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	2004-12-14

Site Id:	17841
Affiliation Type:	Facility Operator
Company Name:	JOHN CIVETTA & SONS, INC
Contact Type:	Not reported
Contact Name:	JOHN CIVETTA & SONS, INC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

JOHN CIVETTA & SONS, INC (Continued) **U000409599**

Zip Code:	Not reported
Country Code:	001
Phone:	(212) 589-9000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	17841
Affiliation Type:	Emergency Contact
Company Name:	JOHN CIVETTA & SONS, INC
Contact Type:	Not reported
Contact Name:	JOHN CIVETTA SR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 589-9000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	34964
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	11/01/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)

JOHN CIVETTA & SONS, INC (Continued) **U000409599**

Tank Number:	002
Tank ID:	34965
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	11/01/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)

Tank Number:	003
Tank ID:	34966
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	11/01/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction Dispenser
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None

JOHN CIVETTA & SONS, INC (Continued) **U000409599**

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number: 004
Tank ID: 34967
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 11/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)

AR231 **TANK LEAK IN REAR YARD** **NY LTANKS** **S106385805**
ENE **1347 BOYNTON AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.238 mi.
1255 ft. **Site 2 of 2 in cluster AR**

Relative: **Higher**
Actual: **43 ft.**

LTANKS:
Facility ID: 0400237
Site ID: 238140
Closed Date: 2006-01-12
Spill Number: 0400237
Spill Date: 2004-04-08
Spill Cause: Tank Failure
Spill Source: Private Dwelling
Spill Class: C4
Cleanup Ceased: Not reported
SWIS: 0301
Investigator: JMZALEWS
Referred To: Not reported
Reported to Dept: 2004-04-08
CID: 444

TANK LEAK IN REAR YARD (Continued) **S106385805**

Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2004-04-08
Spill Record Last Update:	2006-03-20
Spiller Name:	CHAKRABORTY HIRONMOY
Spiller Company:	PRIVATE REIDENCE
Spiller Address:	1347 BOYNTON AVE
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	196147
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO 4/8/2004 Sangesland spoke to Mr. Ruben Carbrear, owner of 1349 Boynton Ave, Bronx. He says oil is coming through the ground from a leak on his neighbor's property at 1347 Boynton Ave. House at 1347 Boynton is in foreclosure and has had alot of Emergency Repair work done on it in the last 2 years by the city HPD. This house has an outdoor #2 oil tank standing in the back of the house. It looks like a new copper line going from the tank into the basement. The old copper line is discarded nearby. The area under this oil tank is saturated with oil and this oil has now migrated over the property line into the yard of 1349 Boynton. Access to the yard of 1349 Boynton is available by ringing the bell at #2B of 1349. Sangesland spoke to Deputy Inspector Harry Brown (718-579-6772) at the NYC- HPD. Mr. Brown was told that it appears that HPD contractors have done work on this site over the last several months which seems to have caused the spill problem. This area needs to be dug out, cleaned and then refilled and tank set up again. Mr. Brown said he would send an inspector to the site and if a spill was found, a contractor would be hired to conduct the cleanup. Sangesland requested that HPD contact the DEC to arrange a joint visit to the building to discuss the clean up. 4/13/2004 Sangesland spoke with HPD Harry Brown. He said an inspector did go to the site and did see an oil leak problem. The case was referred to the HPD Emergency Repairs dept. Contact is Persey Young 212-863-8747. A message was left at this number for Mr. Young. 4/23/2004 Sangesland spoke with Persey Young of HPD. He said a contract was awarded to clean up the site at 1347 Boynton. He didn't know why this work has not yet started. Sangesland asked Mr. Young to contact Ruben Carberear (owner of 1349) to tell him what work would be done and when it would be done. DEC needs to make contact with the HPD hired contractor to confirm that proper endpoint samples will be taken and a complete closure report will be submitted. 09/09/2005 - Changed DEC lead from Demeo to Zalewski. (Zalewski) 11/3/2005 - Spoke with Persey Young (HPD). He said that his records show that they inspected the site on May 12, 2004 and the spill was taken care of by the property owner. They closed the case on May 12, 2004. Placed a phone call to the original caller. He was NA. (Zalewski) 11/4/2005 - Placed another phone call to the original caller. He was NA. I was given his cellphone number. Tried cellphone. No answer. (Zalewski) 1/12/2006 - Placed a phone call to the original caller's cellphone.

TANK LEAK IN REAR YARD (Continued) **S106385805**

He confirmed that the new owner remediated the spill. He was satisfied with the cleanup. Based on the available information, no further action. (Zalewski) "

Remarks: "CALLER SAYS HIS NIEGHBORS OIL LINE IS BROKEN AND IS LEAKING ON HIS PROPERTY< WOULD LIKE SOMEONE TO CHECK OUT SOAKED IN SOIL: "

All Materials:

Site ID:	238140
Operable Unit ID:	882472
Operable Unit:	01
Material ID:	495024
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

AJ232 **1175 WHEELER AVENUE** **NY AST** **U003394533**
SE **1175 WHEELER AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.238 mi.
1257 ft. **Site 5 of 5 in cluster AJ**

Relative:
Higher

Actual:
26 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-457175
Program Type:	PBS
UTM X:	594458.04161
UTM Y:	4520257.37803
Expiration Date:	01/18/2019
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	20189
Affiliation Type:	Facility Owner
Company Name:	RICHSE REALTY CORP
Contact Type:	VICE PRESIDENT
Contact Name:	AARON BAUER
Address1:	1624 WEBSTER AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10457
Country Code:	001
Phone:	(718) 583-4905
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2014-01-17

Site Id:	20189
Affiliation Type:	Mail Contact
Company Name:	BB & BB MGMT. CORP.

1175 WHEELER AVENUE (Continued) **U003394533**

Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1624 WEBSTER AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10457
Country Code:	001
Phone:	(718) 583-4905
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2014-01-21

Site Id:	20189
Affiliation Type:	Facility Operator
Company Name:	1175 WHEELER AVENUE
Contact Type:	Not reported
Contact Name:	RUBEN PINERO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 662-7577
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2014-01-17

Site Id:	20189
Affiliation Type:	Emergency Contact
Company Name:	RISCHE REALTY CORP
Contact Type:	Not reported
Contact Name:	AARON BAUER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 731-2383
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank Id:	36786
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

1175 WHEELER AVENUE (Continued) **U003394533**

L00 - Piping Leak Detection - None
G02 - Tank Secondary Containment - Vault (w/access)
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1960
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	04/14/2017
Material Name:	#6 fuel oil (on-site consumption)

AT233 **1125 CLOSE AVE** **NY UST** **U004272330**
SSE **1125 CLOSE AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.240 mi.
1266 ft. **Site 1 of 2 in cluster AT**

Relative:
Higher

Actual:
17 ft.

UST:

Id/Status:	2-612734 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	12/27/2021
UTM X:	Not reported
UTM Y:	Not reported
Site Type:	Other

Affiliation Records:

Site Id:	554776
Affiliation Type:	Facility Owner
Company Name:	WATCLO REALTY INC
Contact Type:	SECRETARY
Contact Name:	MARLENE HOLAS
Address1:	67 MT. JOY AVE
Address2:	Not reported
City:	SCARSDALE
State:	NY
Zip Code:	10583
Country Code:	001
Phone:	(914) 874-4983
EMail:	Not reported
Fax Number:	Not reported

1125 CLOSE AVE (Continued) **U004272330**

Modified By:	MFLEONAR
Date Last Modified:	2017-07-25
Site Id:	554776
Affiliation Type:	Mail Contact
Company Name:	WATCLO REALTY, INC
Contact Type:	Not reported
Contact Name:	JOHN CALLAGHAN, TONY LEMBECK
Address1:	67 MT. JOY AVE
Address2:	Not reported
City:	SCARSDALE
State:	NY
Zip Code:	10583
Country Code:	001
Phone:	(914) 393-0041
EMail:	TONYPAPAVIVA@GMAIL.COM
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-07-25
Site Id:	554776
Affiliation Type:	Emergency Contact
Company Name:	WATCLO REALTY INC
Contact Type:	Not reported
Contact Name:	TONY LEMBECK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 393-0041
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-07-25
Site Id:	554776
Affiliation Type:	Facility Operator
Company Name:	1125 CLOSE AVE
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	Not reported
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-07-25

Tank Info:

Tank Number:	01

1125 CLOSE AVE (Continued) **U004272330**

Tank ID:	270002
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	3000
Install Date:	01/01/1957
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	10/11/2016
Pipe Model:	Not reported
Modified By:	MFLEONAR
Last Modified:	07/25/2017

Equipment Records:

H00 - Tank Leak Detection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
J05 - Dispenser - On Site Heating System (Supply/Return)
C02 - Pipe Location - Underground/On-ground
I05 - Overfill - Vent Whistle
L00 - Piping Leak Detection - None

234
SSE
1/8-1/4
0.242 mi.
1280 ft.

ONE MORE TIME REALTY CORP **NY AST** **U003387025**
1160 EVERGREEN AVE **N/A**
BRONX, NY 10472

Relative:
Higher

Actual:
20 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-248495
Program Type:	PBS
UTM X:	594380.08343
UTM Y:	4520206.10228
Expiration Date:	07/07/2017
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	9821
Affiliation Type:	Facility Owner
Company Name:	ONE MORE TIME REALTY CORP
Contact Type:	VP
Contact Name:	ERNEST MILCHMAN
Address1:	655 PELHAM PKWAY N.
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10467
Country Code:	001

ONE MORE TIME REALTY CORP (Continued) **U003387025**

Phone:	(718) 654-5959
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2012-11-19

Site Id:	9821
Affiliation Type:	Mail Contact
Company Name:	ONE MORE TIME REALTY CORP
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	655 PELHAM PARWAY NORTH
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10467
Country Code:	001
Phone:	(718) 654-5959
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2007-04-16

Site Id:	9821
Affiliation Type:	Facility Operator
Company Name:	ONE MORE TIME REALTY CORP
Contact Type:	Not reported
Contact Name:	JULIO ALVARADO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 654-5959
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2012-11-19

Site Id:	9821
Affiliation Type:	Emergency Contact
Company Name:	ONE MORE TIME REALTY CORP
Contact Type:	Not reported
Contact Name:	LUZ OCASIO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 654-5959
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2012-11-19

ONE MORE TIME REALTY CORP (Continued) **U003387025**

Tank Info:

Tank Number:	001
Tank Id:	11130
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/22/1980
Capacity Gallons:	4000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KXTANG
Last Modified:	04/14/2017
Material Name:	#6 fuel oil (on-site consumption)

AQ235 **CON EDISON** **NY MANIFEST** **S117316161**
South **1117 BRONX RIVER AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.243 mi.
1283 ft. **Site 4 of 4 in cluster AQ**

Relative:
Higher

Actual:
12 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004634004
Facility Status:	Not reported
Location Address 1:	1117 BRONX RIVER AVE
Code:	BP
Location Address 2:	SB 32610
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004634004
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE - 15TH FLOOR

CON EDISON (Continued) **S117316161**

Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/20/2014
Trans1 Recv Date:	08/20/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/27/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004634004
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563077GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	700
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

CON EDISON (Continued) **S117316161**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AK236 **CON EDISON** **NY MANIFEST** **S117065487**
SW **1143 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10461**
0.243 mi.
1283 ft. **Site 5 of 5 in cluster AK**

Relative:
Higher

Actual:
63 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004580494
Facility Status:	Not reported
Location Address 1:	1143 BRYANT AVE
Code:	BP
Location Address 2:	SB1139
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10461
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004580494
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10001
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	06/30/2014
Trans1 Recv Date:	06/30/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/02/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004580494
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002502423GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N

CON EDISON (Continued) **S117065487**

Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AU237 **1213 ELDER AVENUE** **NY AST** **A100175563**
SE **1213 ELDER AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.243 mi.
1285 ft. **Site 1 of 4 in cluster AU**

Relative:
Higher

Actual:
39 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-605286
Program Type:	PBS
UTM X:	594507.20490
UTM Y:	4520373.18071
Expiration Date:	02/23/2021
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	27155
Affiliation Type:	Facility Owner
Company Name:	SAMSODEEN SAFFIE
Contact Type:	PRESIDENT
Contact Name:	SAMSODEEN SAFFIE
Address1:	10732 S.W. 51ST STREET
Address2:	Not reported
City:	DAVIE
State:	FL
Zip Code:	33328

1213 ELDER AVENUE (Continued) **A100175563**

Country Code:	001
Phone:	(954) 434-5710
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2016-01-14

Site Id:	27155
Affiliation Type:	Mail Contact
Company Name:	SAMSODEEN SAFFIE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	10732 S.W. 51ST STREET
Address2:	Not reported
City:	DAVIE
State:	FL
Zip Code:	33328-3900
Country Code:	001
Phone:	(954) 434-5710
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2016-01-14

Site Id:	27155
Affiliation Type:	Facility Operator
Company Name:	1213 ELDER AVENUE
Contact Type:	Not reported
Contact Name:	ALIM ADALSHA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 863-1471
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	27155
Affiliation Type:	Emergency Contact
Company Name:	SAMSODEEN SAFFIE
Contact Type:	Not reported
Contact Name:	ALIM ADALSHA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 863-1471
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

1213 ELDER AVENUE (Continued) **A100175563**

Tank Info:

Tank Number:	001
Tank Id:	59677
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
B05 - Tank External Protection - Jacketed
G01 - Tank Secondary Containment - Diking (Aboveground)
C03 - Pipe Location - Aboveground/Underground Combination
J02 - Dispenser - Suction Dispenser
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
I02 - Overfill - High Level Alarm
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1980
Capacity Gallons:	1500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

AO238 **CON EDISON** **NY MANIFEST** **S117066570**
NW **1565 VYSE AV** **N/A**
1/8-1/4 **BRONX, NY 10461**
0.244 mi.
1286 ft. **Site 3 of 4 in cluster AO**

Relative:
Higher

Actual:
65 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004592374
Facility Status:	Not reported
Location Address 1:	1565 VYSE AV
Code:	BP
Location Address 2:	SB12254
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10461
Location Zip 4:	Not reported

NY MANIFEST:

CON EDISON (Continued) **S117066570**

EPAID:	NYP004592374
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/10/2014
Trans1 Recv Date:	07/10/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004592374
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503597GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	120
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported

CON EDISON (Continued) **S117066570**

Waste Code 1_4: Not reported
Waste Code 1_5: Not reported
Waste Code 1_6: Not reported

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-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AS239 **1120 BRYANT AVENUE** **NY AST** **A100175478**
SW **1120 BRYANT AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.244 mi.
1288 ft. **Site 2 of 2 in cluster AS**

Relative:
Higher

Actual:
61 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-605187
Program Type: PBS
UTM X: 593705.89176
UTM Y: 4520142.00956
Expiration Date: 02/09/2021
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 27056
Affiliation Type: Facility Owner
Company Name: 1120 BRYANT AVE. REALTY CORP.
Contact Type: PRES.
Contact Name: JOSE GUTIERREZ
Address1: P.O. BOX #230
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10024-0230
Country Code: 001
Phone: (917) 340-3525
EMail: Not reported
Fax Number: Not reported
Modified By: NTFREEMA
Date Last Modified: 2016-02-18

Site Id: 27056
Affiliation Type: Mail Contact
Company Name: 1120 BRYANT AVE. REALTY CORP.
Contact Type: PRES.
Contact Name: JOSE GUTIERREZ
Address1: P.O. BOX #230
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10024-0230
Country Code: 001
Phone: (917) 340-3525
EMail: Not reported
Fax Number: Not reported
Modified By: NTFREEMA

1120 BRYANT AVENUE (Continued) **A100175478**

Date Last Modified: 2016-02-18

Site Id: 27056
Affiliation Type: Facility Operator
Company Name: 1120 BRYANT AVENUE
Contact Type: Not reported
Contact Name: CARLOS RAMOS
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (917) 340-3525
EMail: Not reported
Fax Number: Not reported
Modified By: NTFREEMA
Date Last Modified: 2016-02-18

Site Id: 27056
Affiliation Type: Emergency Contact
Company Name: 1120 BRYANT AVE. REALTY CORP.
Contact Type: Not reported
Contact Name: JOSE GUTIERREZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (201) 703-9832
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Tank Info:

Tank Number: 001
Tank Id: 59551
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
B99 - Tank External Protection - Other
D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
A99 - Tank Internal Protection - Other
J00 - Dispenser - None
I05 - Overfill - Vent Whistle

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service

1120 BRYANT AVENUE (Continued) **A100175478**

Pipe Model:	Not reported
Install Date:	01/01/1970
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

AO240 **CON EDISON** **NY MANIFEST** **S117319431**
NW **1571 VYSE AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.245 mi.
1292 ft. **Site 4 of 4 in cluster AO**

Relative:
Higher

Actual:
65 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004672010
Facility Status:	Not reported
Location Address 1:	1571 VYSE AVE
Code:	BP
Location Address 2:	SB 12254
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004672010
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	10/03/2014
Trans1 Recv Date:	10/03/2014
Trans2 Recv Date:	10/06/2014
TSD Site Recv Date:	10/06/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004672010

CON EDISON (Continued) **S117319431**

Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002564146GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	125
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AU241 **JESMITAS REALTY LLC** **NY AST** **U003387777**
SE **1209 ELDER AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.246 mi.
1300 ft. **Site 2 of 4 in cluster AU**

Relative:
Higher

Actual:
37 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-234370
Program Type:	PBS
UTM X:	594508.98281
UTM Y:	4520362.01006
Expiration Date:	06/17/2023
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	8577

JESMITAS REALTY LLC (Continued) **U003387777**

Affiliation Type:	Facility Owner
Company Name:	JESMITAS REALTY LLC
Contact Type:	MEMBER
Contact Name:	MICHAEL MCNALLY
Address1:	444 REVERE AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10465
Country Code:	001
Phone:	(917) 880-6326
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-04-12

Site Id:	8577
Affiliation Type:	Mail Contact
Company Name:	JESMITAS REALTY LLC
Contact Type:	Not reported
Contact Name:	MICHAEL MCNALLY
Address1:	444 REVERE AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10465
Country Code:	001
Phone:	(718) 409-4691
EMail:	MIKEMAC9136@AOL.COM
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-04-12

Site Id:	8577
Affiliation Type:	Facility Operator
Company Name:	JESMITAS REALTY LLC
Contact Type:	Not reported
Contact Name:	MING DECARO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-4240
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-04-12

Site Id:	8577
Affiliation Type:	Emergency Contact
Company Name:	JESMITAS REALTY LLC
Contact Type:	Not reported
Contact Name:	MICHAEL MCNALLY
Address1:	Not reported
Address2:	Not reported

JESMITAS REALTY LLC (Continued) **U003387777**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 880-6326
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-04-12

Tank Info:

Tank Number:	001
Tank Id:	12557
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
C03 - Pipe Location - Aboveground/Underground Combination
E12 - Piping Secondary Containment - Double-Walled (AG only)
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/13/1913
Capacity Gallons:	1500
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MFLEONAR
Last Modified:	04/12/2018
Material Name:	#2 fuel oil (on-site consumption)

AP242 **LONGFELLOW AVE - HDFC INC** **NY AST** **A100383075**
North **1700 LONGFELLOW AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.248 mi.
1307 ft. **Site 2 of 3 in cluster AP**

Relative:
Higher

Actual:
48 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-110361
Program Type:	PBS

LONGFELLOW AVE - HDFC INC (Continued) **A100383075**

UTM X:	594029.66849
UTM Y:	4521065.77828
Expiration Date:	05/07/2022
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	3373
Affiliation Type:	Mail Contact
Company Name:	URBAN HOME OWNERSHIP CORP.
Contact Type:	Not reported
Contact Name:	PAUL MOORE
Address1:	494 8TH AVENUE
Address2:	19TH FLOOR
City:	NEW YORK
State:	NY
Zip Code:	10001
Country Code:	001
Phone:	(212) 563-0310
EMail:	PAULMOORE@URBANHOMEOWNERSHIPCORP.COM
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-06

Site Id:	3373
Affiliation Type:	Facility Operator
Company Name:	LONGFELLOW AVE - HDFC INC
Contact Type:	Not reported
Contact Name:	MIGUEL SANCHEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 883-0829
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-06

Site Id:	3373
Affiliation Type:	Emergency Contact
Company Name:	1700 LONGFELLOW AVENUE
Contact Type:	Not reported
Contact Name:	MARIA MEIGAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 991-0380
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-06

Site Id:	3373

LONGFELLOW AVE - HDFC INC (Continued) **A100383075**

Affiliation Type:	Facility Owner
Company Name:	1700 LONGFELLOW AVENUE
Contact Type:	PRESIDENT
Contact Name:	PAUL MOORE
Address1:	494 8TH AVENUE 19TH FLOOR
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10001
Country Code:	001
Phone:	(212) 563-0310
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-10-06

Tank Info:

Tank Number:	001
Tank Id:	4824

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I05 - Overfill - Vent Whistle
A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
I01 - Overfill - Float Vent Valve
K00 - Spill Prevention - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping

Tank Location:	6
Tank Type:	Stainless Steel Alloy
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/01/2002
Capacity Gallons:	6000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MFLEONAR
Last Modified:	10/06/2017
Material Name:	#2 fuel oil (on-site consumption)

AV243 **CON EDISON** **NY MANIFEST** **S117535607**
SW **1137 BRYANT ST** **N/A**
1/8-1/4 **BRONX, NY 10461**
0.248 mi.
1308 ft. **Site 1 of 2 in cluster AV**

Relative:
Higher

Actual:
62 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004678058
Facility Status:	Not reported
Location Address 1:	1137 BRYANT ST
Code:	BP
Location Address 2:	SB1131
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10461
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004678058
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	10/15/2014
Trans1 Recv Date:	10/15/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/24/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004678058
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002564414GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S117535607**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

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-1 additional NY MANIFEST: record(s) in the EDR Site Report.

244
NNE
1/8-1/4
0.249 mi.
1315 ft.

CON EDISON - TRANSFORMER MANHOLE TM367
1745 W FARMS RD
BRONX, NY 10460

NY Spills **S116554108**
NY MANIFEST **N/A**

Relative:
Higher

Actual:
19 ft.

SPILLS:

Facility ID:	1400071
Facility Type:	ER
Spill Number:	1400071
DER Facility ID:	448185
Site ID:	493295
DEC Region:	2
Closed Date:	2014-05-15
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	2014-04-02
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2014-04-02
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2014-04-02

CON EDISON - TRANSFORMER MANHOLE TM367 (Continued) **S116554108**

Spill Record Last Update:	2014-05-15
Spiller Name:	Not reported
Spiller Company:	3RD PARTY, UNKNWON
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	ERT
DEC Memo:	"5/15/14 - Austin - 1/2 gal motor oil leaked from a 3rd party's vehicle into a Con Ed service box on the street - Con Ed contained and cleaned up the spill, and the vehicle was taken no for repairs - See D2 files for further information - Spill closed -end "
Remarks:	"2Qts in service box, unknown source. Clean up pending."

All Materials:

Site ID:	493295
Operable Unit ID:	1242800
Operable Unit:	01
Material ID:	2243373
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.50
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

NY MANIFEST:

Country:	USA
EPA ID:	NYP004973465
Facility Status:	Not reported
Location Address 1:	1745 W FARMS RD
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004973465
Mailing Name:	CON EDISON - TRANSFORMER MANHOLE TM367
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL 15TH FL NE
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AU245 **CON EDISON - SERVICE BOX 20887** **NY MANIFEST** **S121968153**
SE **1511 WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.250 mi.
1319 ft. **Site 3 of 4 in cluster AU**

Relative:
Higher

Actual:
32 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP005088030
Facility Status:	Not reported
Location Address 1:	1511 WESTCHESTER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP005088030
Mailing Name:	CON EDISON - SERVICE BOX 20887
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

AP246 **GETTY 276** **NY UST** **U004198728**
North **1720 BOONE AVE** **N/A**
1/8-1/4 **BRONX, NY 10400**
0.250 mi.
1320 ft. **Site 3 of 3 in cluster AP**

Relative:
Higher

Actual:
38 ft.

UST:

Id/Status:	2-152870 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	594116.93084
UTM Y:	4521068.02256
Site Type:	Storage Terminal/Petroleum Distributor

Tank Info:

Tank Number:	001
Tank ID:	30535
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997

GETTY 276 (Continued) **U004198728**

Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	002
Tank ID:	30536
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	003
Tank ID:	30537
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	004
Tank ID:	30538
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel

GETTY 276 (Continued) **U004198728**

Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	005
Tank ID:	30539
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	006
Tank ID:	30540
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	007
Tank ID:	30541
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported

GETTY 276 (Continued) **U004198728**

Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	008
Tank ID:	30542
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	009
Tank ID:	30543
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	010
Tank ID:	30544
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

GETTY 276 (Continued) **U004198728**

Tank Number:	011
Tank ID:	30545
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	012
Tank ID:	30546
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	013
Tank ID:	30547
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Tank Number:	014
Tank ID:	30548
Tank Status:	Closed - Removed

GETTY 276 (Continued) **U004198728**

Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	11/01/1997
Date Tank Closed:	11/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	ZZ
Date Test:	09/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

AV247 **APARTMENT BUILDING** **NY LTANKS** **S107523158**
SW **1134 WEST FARMS RD** **N/A**
1/4-1/2 **BRONX, NY**
0.259 mi.
1366 ft. **Site 2 of 2 in cluster AV**

Relative: **Higher**
Actual: **64 ft.**

LTANKS:

Facility ID:	0510769
Site ID:	356806
Closed Date:	2006-07-20
Spill Number:	0510769
Spill Date:	2005-12-14
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	2005-12-14
CID:	41
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2005-12-15
Spill Record Last Update:	2006-07-20
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	RUDY
Spiller Phone:	(917) 440-1227
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	306863
DEC Memo:	"12/15/05-Sharif//Left a message for Rudy,(917)440-1227. 12/16/05-Sharif// Rudy got back to me saying they cleaned up the spill and took photographs of the cleaned site. He will forward the pictures to DEC. 03/21/06 Sharif Rahman- Left another messege for Rudy today. 04/06/06 Sharif Rahman- Left another messege for Rudy today"

APARTMENT BUILDING (Continued) **S107523158**

Remarks: "storage tank overfill - 5 gallons on sidewalk - 15 gallons in tank room - spill cleaned up"

All Materials:

Site ID:	356806
Operable Unit ID:	1114101
Operable Unit:	01
Material ID:	2104182
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	G
Recovered:	20.00
Oxygenate:	Not reported

AU248 **1210 ELDER AVENUE** **NY LTANKS** **S102662647**
ESE **1210 ELDER AVENUE** **N/A**
1/4-1/2 **BRONX, NY**
0.267 mi.
1408 ft. **Site 4 of 4 in cluster AU**

Relative: **Higher**
Actual: **42 ft.**

LTANKS:

Facility ID:	9607847
Site ID:	325743
Closed Date:	1996-09-23
Spill Number:	9607847
Spill Date:	1996-09-23
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	1996-09-23
CID:	205
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1996-09-23
Spill Record Last Update:	1996-10-18
Spiller Name:	CALER
Spiller Company:	MYSTIC TRANSPORTATION
Spiller Address:	1901 STEINWAY ST
Spiller County:	001
Spiller Contact:	DOMINGO AMADOR
Spiller Phone:	(718) 378-0859
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	262397
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was

1210 ELDER AVENUE (Continued) **S102662647**

Remarks: MARTINKAT GAUGE ON TANK FAULTY, TANK OVERFILLED THEN WENT ON SIDEWALK. CALLED DOMINGO - GAVE SON'S # (516) 352-8574 - DOMINGO SAID MYSTIC WAS SENDING SOMEONE TO CLEAN - CLEANING UP NOW. " "GUAGE ON TANK FAULTY, TANK OVERFILLED."

All Materials:

Site ID:	325743
Operable Unit ID:	1035954
Operable Unit:	01
Material ID:	347104
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30.00
Units:	G
Recovered:	30.00
Oxygenate:	Not reported

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249 **BRYANT AVENUE EAST 174TH ST (MURPHY PRIVATE SEBCO)** **NY LTANKS** **U000418216**
NNW **1705 BRYANT AVENUE** **NY UST** **N/A**
1/4-1/2 **BRONX, NY 10460**
0.280 mi.
1476 ft.

Relative:
Higher

Actual:
80 ft.

LTANKS:

Facility ID:	9811582
Site ID:	161817
Closed Date:	2008-05-20
Spill Number:	9811582
Spill Date:	1998-12-15
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	jkkann
Referred To:	Not reported
Reported to Dept:	1998-12-15
CID:	252
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1998-12-15
Spill Record Last Update:	2008-05-20
Spiller Name:	Not reported
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	250 BROADWAY
Spiller County:	001
Spiller Contact:	FRANK OCELLO
Spiller Phone:	(212) 306-3229
Spiller Extention:	Not reported
DEC Region:	2

BRYANT AVENUE EAST 174TH ST (MURPHY PRIVATE SEBCO) (Continued) **U000418216**

DER Facility ID: 136607
DEC Memo: "12/02/05: This spill transferred from J.Kolleeny to S.Kraszewski.
02/03/06: This spill transferred from S.Kraszewski to Q.Abidi.
04/04/06: This spill transferred from Q. Abidi to Koon Tang.
05/20/08: J.Kann - NYCHA submitted tank tightness testing report. Tank passed after union on vent line replaced. Closure discussed with Vadim."
Remarks: "WILL ISOLATE AND RE-TEST"

All TTF:
Facility ID: 9811582
Spill Number: 9811582
Spill Tank Test: 1546639
Site ID: 161817
Tank Number: 1
Tank Size: 7500
Material: 0001
EPA UST: Not reported
UST: Not reported
Cause: Not reported
Source: Not reported
Test Method: 03
Test Method 2: Horner EZ Check I or II
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 161817
Operable Unit ID: 1072464
Operable Unit: 01
Material ID: 311871
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

UST:
Id/Status: 2-473537 / Active
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 03/28/2019
UTM X: 593957.38352
UTM Y: 4521099.33641
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 20830
Affiliation Type: Facility Owner
Company Name: NEW YORK CITY HOUSING AUTHORITY

BRYANT AVENUE EAST 174TH ST (MURPHY PRIVATE SEBCO) (Continued) **U000418216**

Contact Type:	FUEL OIL REMEDIATION COORDINATOR
Contact Name:	Not reported
Address1:	23-02 49TH AVENUE
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 707-5806
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MXLAY
Date Last Modified:	2017-03-10

Site Id:	20830
Affiliation Type:	Mail Contact
Company Name:	NYC HOUSING AUTHORITY
Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION COORDINATOR
Address1:	23-02 49TH AVENUE
Address2:	TECH SERVS DEPT - 5TH FLOOR
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 707-5725
EMail:	YELENA.TKACH@NYCHA.NYC.GOV
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2018-08-15

Site Id:	20830
Affiliation Type:	Facility Operator
Company Name:	BRYANT AVENUE EAST 174TH ST (MURPHY PRIVATE SEBCO)
Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION UNIT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 707-5725
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-01-31

Site Id:	20830
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY HOUSING AUTHORITY
Contact Type:	Not reported
Contact Name:	EMERGENCY SERVICES DEPARTMENT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

BRYANT AVENUE EAST 174TH ST (MURPHY PRIVATE SEBCO) (Continued) **U000418216**

Zip Code:	Not reported
Country Code:	999
Phone:	(718) 707-5900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-01-30

Tank Info:

Tank Number:	1
Tank ID:	37527
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	7500
Install Date:	08/01/1972
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	01/19/2018
Next Test Date:	01/19/2019
Pipe Model:	Not reported
Modified By:	TLYE
Last Modified:	02/15/2018

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None

AW250 **1151 E 165TH ST** **NY LTANKS** **S102671886**
SSW **1151 E 165TH ST** **N/A**
1/4-1/2 **BRONX, NY**
0.285 mi.
1504 ft. **Site 1 of 2 in cluster AW**

Relative:
Higher

Actual:
39 ft.

LTANKS:

Facility ID:	9201510
Site ID:	100429
Closed Date:	2006-10-31
Spill Number:	9201510
Spill Date:	1992-05-05
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial

1151 E 165TH ST (Continued) **S102671886**

Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	rvketani
Referred To:	Not reported
Reported to Dept:	1992-05-06
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Fire Department
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1992-05-11
Spill Record Last Update:	2006-10-31
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	89168
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was M TIBBE Transferred for closure review to M Johnson 7/29/05. 6/15/06 Transferred for closure review to T Knizek. 9/7/06 - Austin - Assigned from Albany to Region 2 staff (Ketani) for review and closure - end 10/31/06 - Raphael Ketani. The last contact was LT. Broderick of the NYC Fire Department. The spill was an overfill and the tank opening was repaired. Less than 1 gallon was reported lost. Based upon the nature of the loss, the small size of the spill and the fact that 14 years have passed since the incident, I am closing the case administratively. "
Remarks:	"WILL REPAIR OPENING ON TOP TO PREVENT FUTURE OVERFLOW."

All Materials:

Site ID:	100429
Operable Unit ID:	968799
Operable Unit:	01
Material ID:	412820
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

AT251 **CLOSED-LACKOF RECENT INFO** **NY LTANKS** **S100145497**
SSE **1095 CLOSE AVENUE** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
0.285 mi.
1507 ft. **Site 2 of 2 in cluster AT**

Relative:
Higher

Actual:
14 ft.

LTANKS:

Facility ID:	8903579
Site ID:	175288
Closed Date:	2003-03-04
Spill Number:	8903579
Spill Date:	1989-07-10
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	A3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	1989-07-10
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1989-07-11
Spill Record Last Update:	2003-03-04
Spiller Name:	Not reported
Spiller Company:	WESTFARMS EXPRESS
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	147369
DEC Memo:	""
Remarks:	"(4) INDIVIDUAL SYSTEMS TESTS FAILED AIR PRESSURE TEST, 1ST TEST WAS FOR (2)550 GALLON, 2ND FOR (1)550 GALLON, 3RD FOR (1)550 GALLON & THE 4TH TEST FOR A 1080 GALLON TANK. CLOSED DUE TO LACK OF ANY RECENT INFO - DOES NOT MEET ANY CLEANUP REQUIREMENTS. "

All TTF:

Facility ID:	8903579
Spill Number:	8903579
Spill Tank Test:	1535696
Site ID:	175288
Tank Number:	Not reported
Tank Size:	0
Material:	0008
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00

CLOSED-LACKOF RECENT INFO (Continued) **S100145497**

Gross Fail: Not reported
Modified By: Spills
Last Modified Date: Not reported

All Materials:
Site ID: 175288
Operable Unit ID: 931079
Operable Unit: 01
Material ID: 567870
Material Code: 0008
Material Name: diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: L
Recovered: .00
Oxygenate: Not reported

AX252 **BASEMENT** **NY LTANKS S103479812**
ESE **1535 WESTCHESTER AVE** **NY Spills N/A**
1/4-1/2 **BRONX, NY**
0.295 mi.
1557 ft. **Site 1 of 2 in cluster AX**

Relative: **Higher**
Actual: **41 ft.**

LTANKS:
Facility ID: 9808568
Site ID: 312997
Closed Date: 1998-10-26
Spill Number: 9808568
Spill Date: 1998-10-09
Spill Cause: Tank Overfill
Spill Source: Private Dwelling
Spill Class: C4
Cleanup Ceased: Not reported
SWIS: 0301
Investigator: MMMULQUE
Referred To: Not reported
Reported to Dept: 1998-10-09
CID: 371
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1998-10-09
Spill Record Last Update: 1998-10-26
Spiller Name: JIM CAREY
Spiller Company: CASTLE OIL CORPORATION
Spiller Address: 290 LOCUST AVENUE
Spiller County: 001
Spiller Contact: MR SEGAL
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2

BASEMENT (Continued) **S103479812**

DER Facility ID: 252357
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MULQUEEN "
Remarks: "TANK WAS OVERFILLED, BUT MAY HAVE BEEN CAUSED BY EQUIP FAILURE. CLEAN UP IS COMPLETE."

All Materials:
Site ID: 312997
Operable Unit ID: 1065981
Operable Unit: 01
Material ID: 316066
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 30.00
Units: G
Recovered: 30.00
Oxygenate: Not reported

SPILLS:
Facility ID: 1309079
Facility Type: ER
Spill Number: 1309079
DER Facility ID: 252357
Site ID: 489853
DEC Region: 2
Closed Date: 2014-04-17
Spill Cause: Equipment Failure
Spill Class: C3
SWIS: 0301
Spill Date: 2013-12-12
Investigator: RMPIPER
Referred To: Not reported
Reported to Dept: 2013-12-12
CID: Not reported
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2013-12-12
Spill Record Last Update: 2014-04-17
Spiller Name: CHAMBERS FIREFIGHTERS
Spiller Company: APT. OWNER
Spiller Address: 1535 WESTCHESTER AVE
Spiller Company: 999
Contact Name: CHAMBERS FIREFIGHTERS
DEC Memo: "12/12/13-Zhue spoke to the Mr. Salcedo Prez (Sperintendent). He said the building have two oil tanks each 200 gallons. One of the tank had a broken valve and spilled approximately 50 gallons of oil onto the floor of the basement arround the tanks and into a drain. The FD

BASEMENT (Continued) **S103479812**

fixed the valve and pumped the oil from the floor into a 55 gallons drum and spread speedi dry on the floor. As per the super he swept the Speedy Dry and cleaned the drain. The building is a 10 family apartments building. One of the tenant that noticed oil odor called the FD. As per super there is no odor in the building. Salcedo Prez (Superintendent) 347-985-5810 Ryan Piper visited the site. 15-20 gallons covered in speedy dry. 30 gal in drum pumped by fdny. repairs need to be made to system. Oil put back in tank. and drum used to dispose of cont speedy dry. Based on spill, work to date, and condition of concrete floor, this spill is closed."

Remarks: "10 gal. on basement floor unknown amount in drain - building owner Silaf metro holdings. super.Salcedo Prez 347-985-5810 clean up pending"

All Materials:

Site ID:	489853
Operable Unit ID:	1239425
Operable Unit:	01
Material ID:	2239443
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

253
SSE
1/4-1/2
0.300 mi.
1582 ft.

1471-3 WATSON AVENUE (BRONXDALE HOUSES)
1471-3 WATSON AVENUE
BRONX, NY 10473

NY LTANKS **U003644487**
NY UST **N/A**
NY AST
NY Spills

Relative:
Higher

Actual:
17 ft.

LTANKS:

Facility ID:	9006953
Site ID:	71469
Closed Date:	1998-01-12
Spill Number:	9006953
Spill Date:	1990-09-25
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SACCACIO
Referred To:	Not reported
Reported to Dept:	1990-09-25
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1990-10-03

1471-3 WATSON AVENUE (BRONXDALE HOUSES) (Continued) **U003644487**

Spill Record Last Update:	2005-12-08
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	189499
DEC Memo:	""
Remarks:	"10K TANK FAILED HORNER EZY CHECK WITH A GROSS LEAK IN MANWAY, WILL EXCAVATE, ISOLATE & RETEST."

All TTF:

Facility ID:	9006953
Spill Number:	9006953
Spill Tank Test:	1537593
Site ID:	71469
Tank Number:	001
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	71469
Operable Unit ID:	944457
Operable Unit:	01
Material ID:	434386
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

UST:

Id/Status:	2-473561 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	03/28/2019
UTM X:	594374.08263
UTM Y:	4520020.97756
Site Type:	Apartment Building/Office Building

1471-3 WATSON AVENUE (BRONXDALE HOUSES) (Continued) **U003644487**

Affiliation Records:

Site Id:	20833
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY HOUSING AUTHORITY
Contact Type:	FUEL OIL REMEDIATION COORDINATOR
Contact Name:	Not reported
Address1:	23-02 49TH AVENUE
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 707-5806
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MXLAY
Date Last Modified:	2017-03-10

Site Id:	20833
Affiliation Type:	Mail Contact
Company Name:	NYC HOUSING AUTHORITY
Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION COORDINATOR
Address1:	23-02 49TH AVENUE
Address2:	TECH SERVS DEPT - 5TH FLOOR
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 707-5725
EMail:	YELENA.TKACH@NYCHA.NYC.GOV
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2018-08-15

Site Id:	20833
Affiliation Type:	Facility Operator
Company Name:	1471-3 WATSON AVENUE (BRONXDALE HOUSES)
Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION UNIT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 707-5725
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-01-30

Site Id:	20833
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY HOUSING AUTHORITY
Contact Type:	Not reported
Contact Name:	EMERGENCY SERVICES

1471-3 WATSON AVENUE (BRONXDALE HOUSES) (Continued) **U003644487**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	718-707-5900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-01-31

Tank Info:

Tank Number:	1
Tank ID:	54705
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	04/01/1998
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	E
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

H05 - Tank Leak Detection - In-Tank System (ATG)
L02 - Piping Leak Detection - Interstitial - Manual Monitoring
F05 - Pipe External Protection - Jacketed
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
E04 - Piping Secondary Containment - Double walled UG
A04 - Tank Internal Protection - Glass Liner
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
K00 - Spill Prevention - None
B04 - Tank External Protection - Fiberglass
I02 - Overfill - High Level Alarm
L09 - Piping Leak Detection - Exempt Suction Piping
D11 - Pipe Type - Flexible Piping
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	OLD 1
Tank ID:	37539
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	10000

1471-3 WATSON AVENUE (BRONXDALE HOUSES) (Continued) **U003644487**

Install Date: 04/01/1998
Date Tank Closed: 02/01/1998
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 03
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
J00 - Dispenser - None
D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-473561
Program Type: PBS
UTM X: 594374.08263
UTM Y: 4520020.97756
Expiration Date: 03/28/2019
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 20833
Affiliation Type: Facility Owner
Company Name: NEW YORK CITY HOUSING AUTHORITY
Contact Type: FUEL OIL REMEDIATION COORDINATOR
Contact Name: Not reported
Address1: 23-02 49TH AVENUE
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5806
EMail: Not reported
Fax Number: Not reported
Modified By: MXLAY
Date Last Modified: 2017-03-10

Site Id: 20833
Affiliation Type: Mail Contact
Company Name: NYC HOUSING AUTHORITY

1471-3 WATSON AVENUE (BRONXDALE HOUSES) (Continued) **U003644487**

Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION COORDINATOR
Address1:	23-02 49TH AVENUE
Address2:	TECH SERVS DEPT - 5TH FLOOR
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 707-5725
EMail:	YELENA.TKACH@NYCHA.NYC.GOV
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2018-08-15

Site Id:	20833
Affiliation Type:	Facility Operator
Company Name:	1471-3 WATSON AVENUE (BRONXDALE HOUSES)
Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION UNIT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 707-5725
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-01-30

Site Id:	20833
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY HOUSING AUTHORITY
Contact Type:	Not reported
Contact Name:	EMERGENCY SERVICES
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	718-707-5900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-01-31

Tank Info:

Tank Number:	T1
Tank Id:	49021
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

1471-3 WATSON AVENUE (BRONXDALE HOUSES) (Continued) **U003644487**

I05 - Overfill - Vent Whistle
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
C01 - Pipe Location - Aboveground

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	10/01/1994
Capacity Gallons:	6500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/01/1998
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	#2 fuel oil (on-site consumption)

SPILLS:

Facility ID:	9711292
Facility Type:	ER
Spill Number:	9711292
DER Facility ID:	189499
Site ID:	229911
DEC Region:	2
Closed Date:	2013-10-08
Spill Cause:	Unknown
Spill Class:	B3
SWIS:	0301
Spill Date:	1998-01-08
Investigator:	jkkann
Referred To:	Not reported
Reported to Dept:	1998-01-08
CID:	366
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-01-08
Spill Record Last Update:	2013-10-08
Spiller Name:	FRANK OCELLO
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	250 BROADWAY
Spiller Company:	001
Contact Name:	NYC HOUSING AUTHORITY
DEC Memo:	"12/08/05: This spill transferred from J.Kolleeny to S.Kraszewski.

1471-3 WATSON AVENUE (BRONXDALE HOUSES) (Continued) **U003644487**

03/23/06: This spill transferred to K.Tang - SK 07/22/10: J.Kann - spill transferred to J.Kann. Investigation Work Plan received on 7/15/10. 1/3/2012: J.Kann - provided comments investigative work plan in an email (edoced). 4/12/12: J.kann - Work plan approved in an email from 3/19/2012. 9/5/12: J.Kann - should observe field work to confirm that there is no room to sample between tank and building. 4/1/13: J.Kann - sent Stip and Cover letter to NYCHA today. 9/9/13: J.Kann - SIR received 8/12/13. Email sent to NYCHA today stating the report is incomplete - tables are not in the report and the figures are illegible. Will review report once all information is received. 10/8/13: J.Kann - revised SIR received on 9/24/13 and under review. 10/8/13: J.Kann - Report reviewed. 10,000 gallon UST removed in 1998 and replaced with a 4,000 gallon UST. 2013 Investigation included the advancement of thirteen soil borings and the installation of 3 monitoring wells. The spill has been closed based on the following: -source was removed in 1998 -Of the 13 soils samples collected, only one sample contained one SVOC minimally above CP-51, no VOC exceedences. -No free product in the wells -No SVOCs exceedences in groundwater. Minor VOCs detected (6-10 ppb)in groundwater and expected to naturally attenuate. -NFA. NYCHA emailed"

Remarks: "CALLER STATING THEY ENCOUNTERED CONTAMINATED SOIL WHILE REMOVING AN OLD TANK. SOIL WILL BE REMOVED."

All Materials:

Site ID:	229911
Operable Unit ID:	1057796
Operable Unit:	01
Material ID:	325980
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AW254 **APRT** **NY LTANKS** **S108983042**
SSW **1075 LONGFELLOW AVE** **N/A**
1/4-1/2 **BRONX, NY**
0.304 mi.
1606 ft. **Site 2 of 2 in cluster AW**

Relative: **Higher**
Actual: **49 ft.**

LTANKS:

Facility ID:	0711323
Site ID:	392784
Closed Date:	2008-10-31
Spill Number:	0711323
Spill Date:	2008-01-28
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	vszhune
Referred To:	Not reported
Reported to Dept:	2008-01-28

APRT (Continued) **S108983042**

CID:	444
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-01-28
Spill Record Last Update:	2008-10-31
Spiller Name:	JERRY SIBBIO
Spiller Company:	APRT
Spiller Address:	1075 LONGFELLOW AVE
Spiller County:	001
Spiller Contact:	JERRY SIBBIO
Spiller Phone:	(718) 981-5710
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	342375
DEC Memo:	"Sangesland spoke to Jerry Sibbio - Site needs a PBS inspection. 10/31/08: Received five pages report documents dated Sept. 22, 2008 from PRC Management Company LLC. The report documents repair work carried out at the facilty related to the spill case. See eDocs for details. (MA) "
Remarks:	"VISIUAL LEAKS AND SUNCTION"

All TTF:

Facility ID:	0711323
Spill Number:	0711323
Spill Tank Test:	2384555
Site ID:	392784
Tank Number:	Not reported
Tank Size:	5000
Material:	0002
EPA UST:	Not reported
UST:	True
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified Date:	Not reported

All Materials:

Site ID:	392784
Operable Unit ID:	1149771
Operable Unit:	01
Material ID:	2140323
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00

APRT (Continued) **S108983042**

Oxygenate: Not reported

AX255 **CHASE BANK** **NY LTANKS** **S106011034**
SE **1536 WESTCHESTER AVE** **NY Spills** **N/A**
1/4-1/2 **BRONX, NY**
0.319 mi.
1685 ft. **Site 2 of 2 in cluster AX**

Relative: **Higher**

Actual: **41 ft.**

LTANKS:

Facility ID:	0402409
Site ID:	194710
Closed Date:	2007-07-19
Spill Number:	0402409
Spill Date:	2004-06-04
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	C5
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	2004-06-04
CID:	444
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2004-06-04
Spill Record Last Update:	2007-07-19
Spiller Name:	PAUL DYRLAND
Spiller Company:	CHASE BANK
Spiller Address:	1536 WESTCHESTER AVE
Spiller County:	001
Spiller Contact:	PAUL DYRLAND
Spiller Phone:	(718) 441-6800
Spiller Extention:	150
DEC Region:	2
DER Facility ID:	162237
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE TTF ltr 12/19/05 Feroze. Spill is transferred from Ketani to Feroze. 02/23/06. Feroze talked with Mr.Paul 718-441-6800 of New York heating. They did the tank tightness test at this site. He will submit me the report soon. It is 1500 gallons capacity tank but it is not registered. 03/15/06. Spill is transferred from Feroze to Kumar Patel. 03/21/06-Hiralkumar Patel. Spoke with John at Protest and he will call back with information. 03/23/06-Hiralkumar Patel. REceived call from John from Protest. as per him, they did tank test only. the dry portion was leaking. John is not sure about isolation test. they haven't did any further work on site. Spoke with Mr. Dryland (FAX: 718-849-2905) at New York Heating. as per him this tank on site is UST of 1500 gal capacity. tank has two fill lines, one is remote one and this remote fill port was not in use for last 10 years. old fill line is plugged with cement at street level, but never capped at tank end. Paul is going on site to cap the old fill line at tank end. when

CHASE BANK (Continued) **S106011034**

Protest did tank test in 06, 2004 they found test failed, but Pual thikns that was because of old fill line. ONce Paul done with caping old fill line, he will contact ProTest and ProTest will do tank test again. if tank fails, they will do isolation test. i have asked Paul to call me back once they decide with tank test date. this property has another tank on site also. and property also using gas heating system. Paul knows about registration of those tank. Paul gave me person's name and number who is handling this site. Tom Oteranto Chase Manhattan Bank (347) 386-4670 Spoke with Tom and he told me that Paul Deri is handling the tank registration and testing thing at bank. as per Tom property has only one tank. due to signal problem, line disconnected before i get Paul Deri's number. from reverse phone directory, phone number for site address is (718) 935-9935. dialed general number and got Paul Deri on phone. Correspondence address: Paul Deri Chase Manhattan Bank Area Branches Boynton Avenue 1536 Westchester Ave Bronx, NY 10472 Ph. (516) 574-6276 (917) 440-6327 FAX (516) 574-6262 Alternate Address: Paul Deri 1985 Marcus Avenue New Hyde Park, NY 11042 as per Mr. Deri they have only one tank on location and they are already in process of registering it. Paul Dryland will excavate soil and will remove old fill line from location. TTF sent out to Mr. Deri requesting tank test and tank registration. 04/24/06-Hiralkumar Patel. REceived call from Charles Powers (Off.: 516-932-3228 Ext. 101, Cell: 516-448-5004). as per Mr. Powers, Mr. Deri is done with registration of tanks. Mr. powers knows that they have disconnected fill line and filled with cement. the tank top is open. asked Mr. Power to do isolation test of tank only to find out integrity of tank before abondoning it. he will email me with his plan of work. Received email from Mr. Powers. 06/05/06-Hiralkumar Patel. Left message for Mr. Powers. 06/06/06-Hiralkumar Patel. REceived call from Mr. Powers. they will do isolation test tomorrow. he will call back as soon as he gets test results. 06/09/06-Hiralkumar Patel. Received message from Mr. Powers. Left message for Mr. Powers. 06/16/06-Hiralkumar Patel. Received message from Mr. Powers. Spoke to Mr. Powers. as the tank is so close to building and have only single access is sidewalk, it is so hard to remove tank from location. asked Mr. Powers to take soil samples around the tank atleast 2 bt below bottom of tank and also soil samples through bottom of tank. he will email me PID readings of this soil samples and once he gets lab results, will call/email me. 08/14/06-Hiralkumar Patel. spoke with Mr. Powers. he got approval for geoprobe and will call once he gets soil results. 11/22/06-Hiralkumar Patel. left message for Mr. Powers. 11/24/06-Hiralkumar Patel. spoke with Mr. Powers. they got lab analyticals and as per him, samples came back clean. asked him to send closure report (with scaled site plan including sampling locations and full diagram of tank system). 11/29/06-Hiralkumar Patel. received Phase-II Investigation report from Mr. Powers. abstract: - groundwater is assumed to flow in a south/southeastern direction towards the Flushing Bay - four soil samples taken around 2000 gal underground tank (one from each side) - no groundwater encountered in any of the borings - CNS attempted to punch through the UST to collect soil samples beneath the tank, however, this boring was unattainable due to damaged equipment caused from attempting the said boring - samples were collected from these borings at depths ranging between six to eight ft bgs. - only compound found over TAGM limit is total Xylene (S-01A: 2.81 ppm and S-04A: 4.5 ppm, limit: 1.2 ppm) - found 17.3 ppm PID reading in S-01A at depth of 8-9 ft. spoke with Mr. Powers. explained him that as site

CHASE BANK (Continued) **S106011034**

has about 4 times high Xylene, it requires groundwater testing as they can't remove tank due to site restriction. Mr. Powers asked to send this in writing. sent out letter requiring groundwater analysis to Mr. Deri. letter faxed to Mr. Deri and to Mr. Powers (cpowers@cnsmanagement.net). 12/28/06-Hiralkumar Patel. received call from Mr. Powers. he tried to get groundwater sample and hit bedrock at depth 15 ft. he will bring larger drill and will try again. 04/18/07-Hiralkumar Patel. left message for Mr. Powers. spoke with Mr. Deri at bank. he will call Mr. Powers and ask him to call DEC. 05/07/07-Hiralkumar Patel. spoke with Mr. Powers. they can't bring rig for well installation as tank is located at side of building with small access. discuss with DEC Vought. he suggest if they find clean soil between previous depth (8 ft) and bedrock, then contamination could be considered contained. spoke with Mr. Powers again and asked him for 'clean' soil sample between boring depth and bedrock. 07/19/07-Hiralkumar Patel. received phase II report from Mr. Powers. abstract: - installed four borings at site (SB-01B to SB-04B) and collected composite samples from three borings between the depths of 8 to 12 ft bg (SB-01B, SB-02B & SB-04B) - found some VOCs and SVOCs in sample SB-02B, but under limit from available reports, found that contamination is limited to depth of 8 ft. due to tank location close to building wall, not possible to remove any contamination. no contamination found under 8 ft depth. based on available information, case closed. sent NFA to Mr. Deri. letter emailed to Mr. Powers."

Remarks: "KNOW THAT THERE IS A VENT PROBLEM: "

All TTF:

Facility ID:	0402409
Spill Number:	0402409
Spill Tank Test:	1529334
Site ID:	194710
Tank Number:	1
Tank Size:	1500
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	194710
Operable Unit ID:	884094
Operable Unit:	01
Material ID:	552288
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	L
Recovered:	.00

CHASE BANK (Continued) **S106011034**

Oxygenate: Not reported

SPILLS:

Facility ID:	0210853
Facility Type:	ER
Spill Number:	0210853
DER Facility ID:	260838
Site ID:	323788
DEC Region:	2
Closed Date:	2004-02-09
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	2003-01-29
Investigator:	JXZHAO
Referred To:	Not reported
Reported to Dept:	2003-01-29
CID:	204
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2003-01-29
Spill Record Last Update:	2004-02-09
Spiller Name:	ANTASHE MENDEZ
Spiller Company:	CHASE MANHATTEN BANK
Spiller Address:	1536 WESTCHESTER AVENUE
Spiller Company:	001
Contact Name:	ANTASHE MENDEZ
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHAO "
Remarks:	"PRESSURE OIL GUAGE BROKE "

All Materials:

Site ID:	323788
Operable Unit ID:	864150
Operable Unit:	01
Material ID:	514223
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

256
NW
1/4-1/2
0.321 mi.
1694 ft.

MADISON SQUARE BOYS & GIRLS CLUB HOUSE
1665 HOE AV
BRONX, NY

NY LTANKS

S105135043
N/A

Relative:
Higher

Actual:
71 ft.

LTANKS:

Facility ID:	0104700
Site ID:	99970
Closed Date:	2005-07-14
Spill Number:	0104700
Spill Date:	2001-08-01
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	RXMUSTIC
Referred To:	Not reported
Reported to Dept:	2001-08-01
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2001-08-01
Spill Record Last Update:	2005-07-14
Spiller Name:	CEDERIC DEW
Spiller Company:	MADISON AV CLUB
Spiller Address:	1665 HOE AV
Spiller County:	001
Spiller Contact:	CEDERIC DEW
Spiller Phone:	(718) 328-3900
Spiller Extention:	13
DEC Region:	2
DER Facility ID:	88809
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KRIMGOLD John Leddy Protest submitted passing report for test on 10/2/01. PBS (Jie) did not process the passing test reports due to discrepancy of tank capacity. 01/26/04 TRANSFERRED FROM ROMMEL TO AUSTIN 02/17/04: Reassigned from AUSTIN to KRIMGOLD. Mustico - 10/2/2001, Protest Enterprises conducted an excavate and isolate, and tank retest. Sent 05/29/2002 letter to Mr. Moore of Madison Square Boys & Girls Club House with passing test report conducted on 10/2/2001."
Remarks:	"no comments"

All Materials:

Site ID:	99970
Operable Unit ID:	843207
Operable Unit:	01
Material ID:	533182
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00

MADISON SQUARE BOYS & GIRLS CLUB HOUSE (Continued) **S105135043**

Units: G
Recovered: .00
Oxygenate: Not reported

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257 **1815 WEST FARMS ROAD** **NY VCP** **S118943573**
NNE **1815 WEST FARMS ROAD** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
0.327 mi.
1724 ft.

Relative: **Higher**
Actual: **19 ft.**

VCP NYC:
Project ID: 16CVCP029X
Project Name: 1815 WEST FARMS ROAD
Project Address: 1815 WEST FARMS ROAD
Borough: BRONX

VCP NYC:
Project ID: 16CVCP029X
File Name: 2015-10-30.RIR
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/16CVCP029X/2015-10-30.16CVCP029X.1815_West_Farms_Rd.Report.RIR.CARich.pdf

Project ID: 16CVCP029X
File Name: 2015-15-15.RAWP_draft
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/16CVCP029X/2015-12-15.15EHAN561X.Report.RAWP_v2.CARich.pdf

Project ID: 16CVCP029X
File Name: 2016-01-05.Factsheet-1
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/16CVCP029X/2016-01-05.16CVCP029X.1815_West_Farms_Rd.Doc.Factsheet-1.pdf

Project ID: 16CVCP029X
File Name: 2016-01-05.Translated_Factsheet-1
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/16CVCP029X/2016-01-05.16CVCP029X.1815_West_Farms_Rd.Doc.Translated_Factsheet-1.pdf

Project ID: 16CVCP029X
File Name: 2016-01-05.Translated_CPS
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/16CVCP029X/2016-01-05.16CVCP029X.1815_West_Farms_Rd.Doc.Translated_CPS.pdf

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258 **CLOSED-LACKOF RECENT INFO** **NY LTANKS** **S100144747**
SW **985 EAST 167TH STREET** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
0.337 mi.
1777 ft.

Relative: **Higher**
Actual: **64 ft.**

LTANKS:
Facility ID: 8704609
Site ID: 287785
Closed Date: 2003-03-03
Spill Number: 8704609
Spill Date: 1987-09-02

CLOSED-LACKOF RECENT INFO (Continued) **S100144747**

Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	1987-09-02
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1987-09-03
Spill Record Last Update:	2003-03-19
Spiller Name:	Not reported
Spiller Company:	ARCHDIOCESE ST. JOHN
Spiller Address:	985 E.167TH STREET
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	233103
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ADMIN.CLOSED / / : Update 9/22/87:2K Tank Of #2 F.O. Failed Test At 12:20 Hrs, Leak Rate Of -.3493 Gph.3/3/2003-Austin- Closed Due To The Nature / Extent Of The Spill Report."
Remarks:	"EXCAVATING, ISOLATING, AND RE-TESTING. CLOSED DUE TO LACK OF ANY RECENT INFO-DOES NOT MEET ANY CLEAN UP REQUIREMENTS."

All TTF:

Facility ID:	8704609
Spill Number:	8704609
Spill Tank Test:	1531547
Site ID:	287785
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	287785
Operable Unit ID:	911096
Operable Unit:	01

CLOSED-LACKOF RECENT INFO (Continued) **S100144747**

Material ID:	467235
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

259
ESE
1/4-1/2
0.339 mi.
1788 ft.

CON EDISON
1213 WARD AV
BRONX, NY 10472

NY LTANKS **S104620992**
NY MANIFEST **N/A**

Relative:
Higher

Actual:
43 ft.

LTANKS:

Facility ID:	0000461
Site ID:	171392
Closed Date:	2000-09-19
Spill Number:	0000461
Spill Date:	2000-04-11
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	2000-04-11
CID:	281
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2000-04-11
Spill Record Last Update:	2000-09-19
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	NYC FIRE DEPT DISPT #561
Spiller Phone:	(718) 430-0251
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	144236
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KRIMGOLD CLEANED UP BY RP."
Remarks:	"DEP RECEIVED REPORT OF ABOVE MATERIAL BEING SPILLED AT ABOVE LOCATION. NYC FIRE DEPT ON SCENE AT TIME OF CALL. DEP REQUESTING DEC REP TO CONTACT NYC FIRE AT ABOVE PHONE NUMBER."

All Materials:

Site ID:	171392

CON EDISON (Continued) **S104620992**

Operable Unit ID:	822142
Operable Unit:	01
Material ID:	555823
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	200.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

NY MANIFEST:

Country:	USA
EPA ID:	NYP004670865
Facility Status:	Not reported
Location Address 1:	1213 WARD AVE
Code:	BP
Location Address 2:	SB 9915
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004670865
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	10/02/2014
Trans1 Recv Date:	10/02/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/06/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004670865
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported

CON EDISON (Continued) **S104620992**

Manifest Tracking Number:	002564179GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Country:	USA
EPA ID:	NYP004657045
Facility Status:	Not reported
Location Address 1:	1213 WARD AV
Code:	BP
Location Address 2:	SB9915
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004657045
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

CON EDISON (Continued) **S104620992**

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	09/15/2014
Trans1 Recv Date:	09/15/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004657045
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563539GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	400
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

260 South 1/4-1/2 0.345 mi. 1824 ft.

1050 BRONX RIVER AVE/BX
1050 BRONX RIVER AVENUE
NEW YORK CITY, NY

NY LTANKS **S100146801**
N/A

Relative: Higher

Actual: 18 ft.

LTANKS:

Facility ID:	9011819
Site ID:	230614
Closed Date:	1991-02-11
Spill Number:	9011819
Spill Date:	1990-11-01
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Cleanup Ceased:	1991-02-11
SWIS:	0301
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	1991-02-11
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Citizen
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1991-02-13
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	MONTEBELLO FUEL OIL
Spiller Address:	1050 BRONX RIVER AVENUE
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	190049
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG "
Remarks:	"(2) 8K TANK TRUCKS LEAKING,DEC INVESTIGATED SITE,REPORTED NO OBVIOUS SIGN OF SUBSTANTIAL PETROLEUM CONTAMINATION WHICH WAS FIRST REPORTED, HOUSEKEEPING PROBLEMS."

All Materials:

Site ID:	230614
Operable Unit ID:	951736
Operable Unit:	01
Material ID:	428338
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	.00
Oxygenate:	Not reported

261
ENE
1/4-1/2
0.351 mi.
1853 ft.

BRONX RIVER HOUSES -NYCHA
1575 EAST 174TH STREET
BRONX, NY

NY LTANKS
NY Spills

U000410692
N/A

Relative:
Higher

Actual:
31 ft.

LTANKS:

Facility ID:	9411941
Site ID:	240316
Closed Date:	2006-02-03
Spill Number:	9411941
Spill Date:	1994-12-07
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SWKRASZE
Referred To:	Not reported
Reported to Dept:	1994-12-07
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1994-12-08
Spill Record Last Update:	2006-02-03
Spiller Name:	Not reported
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	205591
DEC Memo:	"12/21/05: This spill transferred from J.Kolleeny to S.Kraszewski. 02/03/06: This spill closed to consolidate with open spill #8908309. - SK"
Remarks:	"ISOLATE-REPAIR-RETEST"

All TTF:

Facility ID:	9411941
Spill Number:	9411941
Spill Tank Test:	1543425
Site ID:	240316
Tank Number:	002
Tank Size:	0
Material:	0002
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported

BRONX RIVER HOUSES -NYCHA (Continued) **U000410692**

Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	240316
Operable Unit ID:	1005571
Operable Unit:	01
Material ID:	374277
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9412464
Site ID:	250806
Closed Date:	2006-02-03
Spill Number:	9412464
Spill Date:	1994-12-16
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SWKRASZE
Referred To:	Not reported
Reported to Dept:	1994-12-16
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1994-12-22
Spill Record Last Update:	2006-02-03
Spiller Name:	Not reported
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	205591
DEC Memo:	"12/21/05: This spill transferred from J.Kolleeny to S.Kraszewski. 02/03/06: This spill closed to consolidate with open spill #8908309. - SK"
Remarks:	"GROSS FAILURE - COULD NOT MAINTAIN LEVEL"

All TTF:

Facility ID:	9412464

BRONX RIVER HOUSES -NYCHA (Continued) **U000410692**

Spill Number:	9412464
Spill Tank Test:	1543461
Site ID:	250806
Tank Number:	001
Tank Size:	0
Material:	0002
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	250806
Operable Unit ID:	1006109
Operable Unit:	01
Material ID:	374772
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Facility ID:	9612593
Facility Type:	ER
Spill Number:	9612593
DER Facility ID:	171035
Site ID:	205967
DEC Region:	2
Closed Date:	1997-08-15
Spill Cause:	Human Error
Spill Class:	C4
SWIS:	0301
Spill Date:	1997-01-22
Investigator:	HEALY
Referred To:	Not reported
Reported to Dept:	1997-01-22
CID:	270
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False

BRONX RIVER HOUSES -NYCHA (Continued) **U000410692**

Remediation Phase:	0
Date Entered In Computer:	1997-01-22
Spill Record Last Update:	1997-08-15
Spiller Name:	FRANK OCELLO
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"OIL COMPANY WAS TOLD TO HOOK UP TO THE WRONG FILL PIPE"

All Materials:

Site ID:	205967
Operable Unit ID:	1040400
Operable Unit:	01
Material ID:	341238
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	8908309
Facility Type:	ER
Spill Number:	8908309
DER Facility ID:	205591
Site ID:	129947
DEC Region:	2
Closed Date:	2011-01-25
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	1989-11-21
Investigator:	jkkann
Referred To:	Not reported
Reported to Dept:	1989-11-21
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1989-11-29
Spill Record Last Update:	2011-01-25
Spiller Name:	Not reported
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"01/30/06: This spill transferred from J.Kolleeny to S.Kraszewski.

BRONX RIVER HOUSES -NYCHA (Continued) **U000410692**

This site was previously served by three 25K USTs that stored #6 fuel oil until 1990 when they were switched to #4 fuel oil. Currently, three 17K tanks are in use with #2 fuel oil. A 1993 Phase II report revealed free product in one MW and isolated areas of contamination. Some PID results were inconsistent with the soil and GW observations. A pneumatic recovery system with two RWs were installed in 1995. The latest report for this system indicated that there is no product in the recovery wells. Must have a current update for the site. Contact NYCHA. - SK 9/22/06: Spill transferred from Kraszewski to Kann. 7/31/07 - Work Plan submitted in March 2007 and approved in April 2007. Work performed on site and investigation results due by August 15, 2007. 7/19/10: J.Kann - SAR submitted in 12/07. Supplemental work plan submitted on 7/15/10. 9/9/10: J.Kann - a meeting was held with NYCHA (R. Trocchio and Y.Tkach) to discuss DEP green project at the site. The following email was sent in response to the meeting: Based on our meeting of this morning, NYCHA has indicated that NYCDEP will be installing Green Infrastructure and Stormwater Pilots at Bronx River Houses. Bronx River Houses has one open spill. DEC's involvement at this site is limited to spill remediation. NYCHA's environmental consultants and NYCDEP's project engineers should be able to determine the effects of the green project on the spill remedy. It appears there may be no impact, but ultimately it is NYCDEP and NYCHA's task to make this determination and inform DEC. In addition, the work plan prepared by preferred environmental and dated June 2010 was approved in an email dated 9/9/10. 10/26/10: J.Kann - visited site. Borings were being advanced using a rotosonic rig. Met with Ralph Trochio, Yelena Tsack of NYCHA and Jessica Ferngren of Gannett Fleming. Some field adjustments were made to boring/well locations in the work plan. The wells located on the opposite side of the building were moved closer to the former tank area. 1/10/11: J.Kann - Quarterly report sumitted on 1/6/11. 1/25/11: J.Kann - Based on review of the Site Investigation Report, NFA is warranted. Historic tanks were closed in place. Confirmatory borings and wells were advanced around the historic tanks. No free product remains in any on-site wells. Groundwater samples were collected from 8 wells. One recovery well contained minor exceedences of PAHs in groundwater. Wells located upgradient and downgradient of the recovery well had no exceedances. Soils were clean with the exception of some PAHs detected in one location cross-gradient and on the other side of the building away from the tanks at a depth of 10 ft bgs. Historic fill was present in that boring. As per the recommendation of the consultant, NYCHA will need to over drill the recovery wells for removal because smeers of old product are present along the casing. Spill closed. NFA. "

Remarks: "SUSPECT UNDERGROUND FUEL LINE FAILURE WILL EXCAVATE CONTAMINATED AREA LOCATE LEAK,MAKE REPAIRS-PICK UP AND DISPOSE CONTAMINATED SOIL."

All TTF:

Facility ID:	8908309
Spill Number:	8908309
Spill Tank Test:	1536447
Site ID:	129947
Tank Number:	Not reported
Tank Size:	0
Material:	0003
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported

BRONX RIVER HOUSES -NYCHA (Continued) **U000410692**

Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	129947
Operable Unit ID:	933365
Operable Unit:	01
Material ID:	445058
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9110530
Facility Type:	ER
Spill Number:	9110530
DER Facility ID:	205591
Site ID:	220410
DEC Region:	2
Closed Date:	1993-07-06
Spill Cause:	Human Error
Spill Class:	C3
SWIS:	0301
Spill Date:	1992-01-08
Investigator:	HEALY
Referred To:	Not reported
Reported to Dept:	1992-01-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	1993-07-06
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-01-30
Spill Record Last Update:	2005-12-21
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"DELIVERY TO WRONG TANK. WINSTON CONTRACT TO CLEAN SPILL."

BRONX RIVER HOUSES -NYCHA (Continued) **U000410692**

All TTF:

Facility ID:	9110530
Spill Number:	9110530
Spill Tank Test:	1539495
Site ID:	220410
Tank Number:	Not reported
Tank Size:	0
Material:	0002
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	220410
Operable Unit ID:	964115
Operable Unit:	01
Material ID:	419057
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9411827
Facility Type:	ER
Spill Number:	9411827
DER Facility ID:	205591
Site ID:	250805
DEC Region:	2
Closed Date:	1994-12-05
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	1994-12-05
Investigator:	HEALY
Referred To:	Not reported
Reported to Dept:	1994-12-05
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	1994-12-05
Cleanup Meets Std:	True
Last Inspection:	1994-12-05
Recommended Penalty:	False

BRONX RIVER HOUSES -NYCHA (Continued) **U000410692**

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1994-12-05
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	MYSTIC TRANSPORT
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"SPILL CONTAINED ON PAVEMENT-NO DRAINS AFFECTED. CLEANUP DONE BY MYSTIC"

All Materials:

Site ID:	250805
Operable Unit ID:	1005446
Operable Unit:	01
Material ID:	374171
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9612598
Facility Type:	ER
Spill Number:	9612598
DER Facility ID:	205591
Site ID:	250807
DEC Region:	2
Closed Date:	1997-08-15
Spill Cause:	Human Error
Spill Class:	C3
SWIS:	0301
Spill Date:	1997-01-22
Investigator:	HEALY
Referred To:	Not reported
Reported to Dept:	1997-01-22
CID:	196
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-01-22
Spill Record Last Update:	2006-02-03
Spiller Name:	RAY VELEZ
Spiller Company:	NYC HOUSING AUTH
Spiller Address:	250 BROADWAY
Spiller Company:	001

BRONX RIVER HOUSES -NYCHA (Continued) **U000410692**

Contact Name: EMERGENCY SERVICES
DEC Memo: ""
Remarks: "NUMBER 4 FUEL WAS PUT INTO WRONG TANK SPILLING ABOUT 200 GALS. SPILL IS CONTAINED IN A VAULT. SPILL TO BE CLEANED UP IN AM ON JAM 23RD, 1997. CLEANUP TO BE DONE BY WINSTON CONTRACTING. NYC HOUSING DID VERIFY SPILL IS CONTAINED."

All Materials:
Site ID: 250807
Operable Unit ID: 1044096
Operable Unit: 01
Material ID: 341243
Material Code: 0002A
Material Name: #4 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 200.00
Units: G
Recovered: .00
Oxygenate: Not reported

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262 SSW 1/4-1/2 0.355 mi. 1874 ft.

1125 WHITLOCK AVENUE (PHASE I) **NY VCP** **S121796998**
1125 WHITLOCK AVENUE (PHASE I) **N/A**
NEW YORK CITY, NY

Relative: Higher

Actual: 39 ft.

VCP NYC:
Project ID: 18CVCP033X
Project Name: 1125 WHITLOCK AVENUE (PHASE I)
Project Address: 1125 WHITLOCK AVENUE (PHASE I)
Borough: BRONX

VCP NYC:
Project ID: 18CVCP033X
File Name: 2017-11-28.RIR
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/18CVCP033X/2017-11-06.18TMP0057X.RIR Phase II Report.Final Version with Attachments..pdf

Project ID: 18CVCP033X
File Name: 2017-11-28.RAWP_draft
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/18CVCP033X/2017-11-28.18TMP0057X.RAPRAWP.Text and Attachments for Public Comment Period.pdf

Project ID: 18CVCP033X
File Name: 2017-11-28.Factsheet-1
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/18CVCP033X/2017-11-27.18TMP0057X.1125_Whitlock_Ave_Fact Sheet-1.pdf

Project ID: 18CVCP033X
File Name: 2017-11-28.Translated_Factsheet-1
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/18CVCP033X/2017-11-27.18TMP0057X.1125_Whitlock_Ave_Fact Sheet-1_Translation.pdf

Project ID: 18CVCP033X

1125 WHITLOCK AVENUE (PHASE I) (Continued) **S121796998**

File Name: 2017-11-28.Translated_CPS
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/18CVCP033X/2017-11-27.18TMP0057X.1125_Whitlock_Ave_CPS_Translation.pdf

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AY263 **BETHEL CLEANERS** **RCRA-LQG** **1004565965**
SW **1120 WESTCHESTER AVENUE** **NY SHWS** **NY0000132795**
1/4-1/2 **BRONX, NY 10459** **ICIS**
0.365 mi. **FINDS**
1928 ft. **Site 1 of 2 in cluster AY** **ECHO**
NY MANIFEST

Relative:
Higher

Actual:
62 ft.

RCRA-LQG:
Date form received by agency: 02/01/2018
Facility name: 1120 WESTCHESTER AVENUE PROJECT
Facility address: 1120 WESTCHESTER AVE
BRONX, NY 10459
EPA ID: NY0000132795
Mailing address: E 7TH ST
BROOKLYN, NY 11223
Contact: MORRIS JAJATI
Contact address: E 7TH ST
BROOKLYN, NY 11223
Contact country: US
Contact telephone: 917-622-3131
Contact email: QUEENSLEVY@YAHOO.COM
EPA Region: 02
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: JAE KIM
Owner/operator address: 144-20 38TH AVE
FLUSHING, NY 11354
Owner/operator country: Not reported
Owner/operator telephone: 718-539-5285
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: WEST LEVY LLC
Owner/operator address: WESTCHESTER AVE

BETHEL CLEANERS (Continued) **1004565965**

BRONX, NY 10459
Owner/operator country: US
Owner/operator telephone: 917-622-3131
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/24/2013
Owner/Op end date: Not reported

Owner/operator name: MORRIS JAJATI
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/24/2013
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 01/01/2007
Site name: BETHEL CLEANERS
Classification: Not a generator, verified

BETHEL CLEANERS (Continued) **1004565965**

Date form received by agency: 01/01/2006
Site name: BETHEL CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/01/1994
Site name: BETHEL CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

Violation Status: No violations found

SHWS:
Program: HW
Site Code: 513986
Classification: Significant threat to the public health or environment - action required.
Region: 2
Acres: 0.021
HW Code: 203083
Record Add: 09/21/2015
Record Upd: 09/26/2017
Updated By: JHOCONNE
Site Description: Location: The 900 square foot site is located at 1120 Westchester Avenue in Bronx County, NY in an urban area. Site Features: The site is located at 1120 Westchester Avenue, Bronx, New York. According to the New York City Department of Buildings the site is listed as block 2750 and lot 11. Records indicated that the subject building was built in approximately 1922. The building is a two story brick structure with a retail wine and liquor store currently occupying the first floor and one residential apartment on the second floor. The building occupies the entire lot, which is served by public water supply. Current Zoning and Land Use: The site is bordered by mixed use residential and retail properties on all three sides and Westchester Ave in front (to the north). Past Use of the Site: According to Sanborn History Maps, the subject property was vacant from the 1890s to the 1910s. There is no information regarding property use from the 1910s until the 1950s. The property was then used for both a retail store (including a drycleaner) and residential from 1950 to the present day. The Phase II Report did not note for how long the drycleaner operated on the property. Site Geology and Hydrogeology: The subsurface lithology encountered during the investigation consisted of brown fine silt-sand with some gravel. The site topography is generally flat and is situated approximately fifty (50) feet above mean sea level. Refusal due to competent bedrock was encountered at approximately three (3) feet below grade in the basement and twenty-two (22) feet below grade in the sidewalk area. Based upon a review of a groundwater contour map for the area it is anticipated the regional groundwater flow is from the west to the east towards the Bronx River.
Env Problem: Nature and Extent of Contamination: Preliminary investigation results indicate the site is contaminated with volatile organic compounds (VOCs). Soil The analytical results for the soil samples were compared to the unrestricted use soil cleanup objectives (SCOs) listed in the NYSDEC CP-51 and NYCRR Part 375-6.8(a). The maximum tetrachloroethene (PCE) concentration in soil was 100 parts per million (ppm), at a depth of 0-3 below grade (SB-1B). A maximum

BETHEL CLEANERS (Continued) **1004565965**

observed xylene concentration of 2.7 ppm, and 1,2,4-trimethylbenzene concentration of 7 ppm were detected at depth range of 0 -3 in SB-3. All other analytes are below unrestricted use SCOs. Groundwater Not sampled due to drilling refusal. Soil Vapor Analytical results of soil vapor samples were compared to NYSDOH sub-slab guidelines. The maximum tetrachloroethene (PCE) sample concentration was 125,000 ug/m3 at a SSV-1. The maximum trichloroethene (TCE) concentration of 179 ug/m3 was observed at SSV-1. The corresponding indoor air concentration of PCE was 196 g/m3 at IA-1, located in the basement of the building; and IA-2 at 45.8 g/m3, located on the first floor in the liquor store.

Health Problem: People are not drinking the groundwater because the area is served by a public water supply that is not affected by this contamination. Since the site is covered by pavement and the building basement has a concrete floor, people should not come into direct contact with site-related soil contamination unless the pavement, building, or basement floor is disturbed. Volatile organic compounds in the soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Environmental sampling has identified impacts associated with soil vapor intrusion at the on-site building and actions are recommended to address exposure. In addition, environmental sampling is recommended to determine if soil vapor intrusion is a concern for off-site buildings.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 9/21/2015 1:00:00 PM
Record Upd: 5/17/2016 10:37:00 AM
Updated By: MXYAU
Own Op: Owner
Sub Type: 01
Owner Name: Morris Levy
Owner Company: West Levy, LLC
Owner Address: 2140 East 7th Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11223
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: 01
Owner Name: Morris Levy
Owner Company: West Levy, LLC
Owner Address: 2140 East 7th Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11223
Owner Country: United States of America
HW Code: 203083
Waste Type: xylene (mixed)
Waste Quantity: UNKNOWN

BETHEL CLEANERS (Continued) **1004565965**

Waste Code: Not reported
HW Code: 203083
Waste Type: 1,2,4-trimethylbenzene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 203083
Waste Type: trichloroethene (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 203083
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 203083
Waste Type: 1,2,4-TMB
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

ICIS:
Enforcement Action ID: 02-1998-0379
FRS ID: 110001598959
Action Name: BETHEL CLEANERS
Facility Name: BETHEL CLEANERS
Facility Address: 1120 WESTCHESTER AVENUE
BRONX, NY 10459
Enforcement Action Type: CAA 113A Admin Compliance Order (Non-Penalty)
Facility County: BRONX
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 113A
Facility SIC Code: 7216
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 40.825407
Longitude in Decimal Degrees: -73.890466
Permit Type Desc: Not reported
Program System Acronym: 3125
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: LUCKY CLEANERS
Address: 1120 WESTCHESTER AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 7216

Facility Name: LUCKY CLEANERS
Address: 1120 WESTCHESTER AVENUE
Tribal Indicator: N
Fed Facility: No

BETHEL CLEANERS (Continued) **1004565965**

NAIC Code: Not reported
SIC Code: 7216

Facility Name: LUCKY CLEANERS
Address: 1120 WESTCHESTER AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 7216

FINDS:

Registry ID: 110001598959

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1004565965
Registry ID: 110001598959
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110001598959

NY MANIFEST:

Country: USA
EPA ID: NY0000132795
Facility Status: Not reported
Location Address 1: 1120 WESTCHESTER AVE
Code: BP

BETHEL CLEANERS (Continued) **1004565965**

Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NY0000132795
Mailing Name:	1120 WESTCHESTER AVENUE PROJECT WEST LEVY LLC
Mailing Contact:	Not reported
Mailing Address 1:	2140 EAST 7TH ST
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11223
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	9176223130

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2018
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	03/20/2018
Trans1 Recv Date:	03/20/2018
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/20/2018
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000132795
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	016672543JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000

BETHEL CLEANERS (Continued) **1004565965**

Units:	P - Pounds
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	F001
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY MANIFEST: detail in the EDR Site Report.

AY264 **VERIZON NEW YORK INC-NY-90201** **NY LTANKS** **S103571031**
SW **1106 HOE AVENUE** **NY TANKS** **N/A**
1/4-1/2 **BRONX, NY 10459** **NY Spills**
0.366 mi.
1932 ft. **Site 2 of 2 in cluster AY**

Relative: **Higher**
Actual: **63 ft.**

LTANKS:

Facility ID:	9108166
Site ID:	116014
Closed Date:	2000-05-02
Spill Number:	9108166
Spill Date:	1991-10-30
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	A3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1991-10-31
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1991-11-07
Spill Record Last Update:	2000-05-02
Spiller Name:	Not reported
Spiller Company:	NY TEL
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	100990
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE refer to 97-05834"
Remarks:	"E I & R"

VERIZON NEW YORK INC-NY-90201 (Continued) **S103571031**

All TTF:

Facility ID:	9108166
Spill Number:	9108166
Spill Tank Test:	1539250
Site ID:	116014
Tank Number:	Not reported
Tank Size:	0
Material:	0008
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	116014
Operable Unit ID:	958560
Operable Unit:	01
Material ID:	420330
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

TANKS:

Facility Id:	2-343676
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	10/14/2023
UTM X:	593542.22013
UTM Y:	4520001.31221

SPILLS:

Facility ID:	0709766
Facility Type:	ER
Spill Number:	0709766
DER Facility ID:	100990
Site ID:	390897
DEC Region:	2
Closed Date:	2009-03-18
Spill Cause:	Equipment Failure
Spill Class:	D4
SWIS:	0301

VERIZON NEW YORK INC-NY-90201 (Continued) **S103571031**

Spill Date:	2007-12-11
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2007-12-11
CID:	444
Water Affected:	DRAIN EFFECTED
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2007-12-11
Spill Record Last Update:	2009-03-18
Spiller Name:	CLAUDIA TACCETTA
Spiller Company:	VERIZON BLDG
Spiller Address:	1106 HOE AVE
Spiller Company:	001
Contact Name:	CLAUDIA TACCETTA
DEC Memo:	"DECPiper receoved documentation of cleanup. Closed. See e-docs if warranted."
Remarks:	"GENERATER MALFUNCTION: AND CREW ENROUTE TO CLEAN UP, WENT DOWN THE DRAIN"

All Materials:

Site ID:	390897
Operable Unit ID:	1147986
Operable Unit:	01
Material ID:	2138467
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	10.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9705834
Facility Type:	ER
Spill Number:	9705834
DER Facility ID:	100990
Site ID:	116015
DEC Region:	2
Closed Date:	2000-05-02
Spill Cause:	Other
Spill Class:	C3
SWIS:	0301
Spill Date:	1997-08-14
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1997-08-14
CID:	369
Water Affected:	Not reported
Spill Source:	Commercial/Industrial

VERIZON NEW YORK INC-NY-90201 (Continued) **S103571031**

Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-08-14
Spill Record Last Update:	2000-05-02
Spiller Name:	MICE ANGELO
Spiller Company:	NYNEX
Spiller Address:	221 E 38TH ST
Spiller Company:	001
Contact Name:	DAVE PIERCEY
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE see file"
Remarks:	"WENT TO FILL TANK WITH CONCRETE AND FOUND HOLES"

All Materials:

Site ID:	116015
Operable Unit ID:	1052009
Operable Unit:	01
Material ID:	331452
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

265
WNW
1/4-1/2
0.371 mi.
1959 ft.

MINFORD PL &EAST 172ND ST
MINFORD PL / E 172ND ST
NEW YORK CITY, NY

NY LTANKS **S100145517**
N/A

Relative:
Higher

Actual:
63 ft.

LTANKS:

Facility ID:	8904140
Site ID:	157699
Closed Date:	1998-02-09
Spill Number:	8904140
Spill Date:	1989-07-26
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	A1
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1989-07-26
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False

MINFORD PL &EAST 172ND ST (Continued) **S100145517**

Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1989-08-01
Spill Record Last Update:	1998-02-09
Spiller Name:	Not reported
Spiller Company:	MILCHMAN REALTY-OWNER
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	133343
DEC Memo:	""
Remarks:	"HIRED FENELY & NICHOL UNDER DEC CONTRACT TO PUMP OIL FROM ABANDDONED UNDERGROUND TANK LEFT MANHOLE OPEN WITH AN OIL SPILL ONTO SURFACE. SERIOUS HAZARD TO PUBLIC LOT OPEN AND NEXT TO OPEN FIELD."

All Materials:

Site ID:	157699
Operable Unit ID:	929523
Operable Unit:	01
Material ID:	448205
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2000.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

266
SSE
1/4-1/2
0.377 mi.
1988 ft.

1080 WHEELER AVE
1080 WHEELER AVE
BRONX, NY

NY LTANKS **S102672151**
NY Spills **N/A**

Relative:
Higher

Actual:
23 ft.

LTANKS:

Facility ID:	9300539
Site ID:	101278
Closed Date:	2002-12-20
Spill Number:	9300539
Spill Date:	1993-04-12
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SJMILLER
Referred To:	Not reported
Reported to Dept:	1993-04-12
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported

1080 WHEELER AVE (Continued) **S102672151**

Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1993-04-13
Spill Record Last Update:	2002-12-20
Spiller Name:	Not reported
Spiller Company:	UNKNOWM
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	89752
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MILLER SEE SPILL REPORT NO. 9300546 - DEC RESPONSE - CLOSED."
Remarks:	"DEP ON SITE STATING INVESTIGATION"

All Materials:

Site ID:	101278
Operable Unit ID:	982395
Operable Unit:	01
Material ID:	401291
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Facility ID:	9300546
Facility Type:	ER
Spill Number:	9300546
DER Facility ID:	89752
Site ID:	101279
DEC Region:	2
Closed Date:	2002-12-20
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	1993-04-12
Investigator:	SJMILLER
Referred To:	Not reported
Reported to Dept:	1993-04-12
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False

1080 WHEELER AVE (Continued) **S102672151**

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1993-04-13
Spill Record Last Update:	2002-12-20
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MILLER 4/12/93 @1555HRS, MILLER RESPONDED TO SPILL AND MET NYC HAZ MAT & SEWER PERSONNEL. ABC TANK CREW ON SCENE: DRUMMING AND VACKING OIL FROM TANK ROOM AND COURT YARD. SPOKE TO OWNER, MOSLAN, ON PHONE. BY 1745HRS, TAKE UP TO DEPART AS ABC CREW COMPLETES CLEANUP. EARLIER SPILL NO. 9300539 CALLED IN FOR THIS SPILL - CLOSED."
Remarks:	"ABC GOT CALL FROM MOSLAN-THE OWNER VALVE RUPTURED LEAKING 100 GALS TO CONCRETE FLOOR OF TANK ROOM SOME GOT OUT INTO A COURTYARD.ABC HIRED BY MOSLAN TO CLEAN-UP"

All Materials:

Site ID:	101279
Operable Unit ID:	982398
Operable Unit:	01
Material ID:	401298
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	100.00
Units:	G
Recovered:	100.00
Oxygenate:	Not reported

267
SE
1/4-1/2
0.400 mi.
2113 ft.

SIMCHESTER REALTY
1105 BOYNTON AVE
BRONX, NY

NY LTANKS **S103824494**
N/A

Relative:
Higher

Actual:
43 ft.

LTANKS:

Facility ID:	9814911
Site ID:	201337
Closed Date:	1999-03-16
Spill Number:	9814911
Spill Date:	1999-03-16
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	JXZHAO
Referred To:	Not reported
Reported to Dept:	1999-03-16
CID:	384
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported

SIMCHESTER REALTY (Continued) **S103824494**

Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1999-03-16
Spill Record Last Update:	1999-03-17
Spiller Name:	JOHN HARDER
Spiller Company:	SIMCHESTER REALTY
Spiller Address:	1105 BOYNTON AV
Spiller County:	001
Spiller Contact:	JOHN HARDER
Spiller Phone:	(718) 993-8050
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	167512
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHAO 11:50AM SPILL ON DIRT AREA HAS BEEN COMPLETELY CLEANED-UP."
Remarks:	"WHILE MAKING A DELIVERY TANK WAS OVERFILLED DUE TO FAULTY OVERFILL GAUGE. CLEAN UP WILL BE DONE BY CASTLE OIL."

All Materials:

Site ID:	201337
Operable Unit ID:	1072774
Operable Unit:	01
Material ID:	311580
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	5.00
Oxygenate:	Not reported

268
North
1/4-1/2
0.405 mi.
2140 ft.

1797 VYSE AVE
1797 VYSE AV
BRONX, NY

NY LTANKS **S105995489**
N/A

Relative:
Higher

Actual:
72 ft.

LTANKS:

Facility ID:	0112238
Site ID:	316178
Closed Date:	2006-03-06
Spill Number:	0112238
Spill Date:	2002-03-28
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SLBENJAM
Referred To:	Not reported
Reported to Dept:	2002-03-28
CID:	365
Water Affected:	Not reported
Spill Notifier:	Other

1797 VYSE AVE (Continued) **S105995489**

Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	2002-03-28
Spill Record Last Update:	2006-03-06
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	1797 VYSE AV
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	254896
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL 12/2/2003 Transferred from Sangesland to Rommel PM changed to S. Benjamin on 6/15/2005. Groundwater was sampled on October 25, 2005 and analyzed for VOCs and SVOCs. The results did not indicate the presence of any of these compunds. Spill closed."
Remarks:	"they found contaminated soil during a tank removal - they will excavated the soil"

All Materials:

Site ID:	316178
Operable Unit ID:	851041
Operable Unit:	01
Material ID:	526248
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AZ269 **CLOSED-LACKOF RECENT INFO** **NY LTANKS** **S100144750**
East **1372 STRAFFORD AVE.** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
0.413 mi.
2183 ft. **Site 1 of 2 in cluster AZ**

Relative:
Higher

Actual:
31 ft.

LTANKS:

Facility ID:	8704437
Site ID:	325285
Closed Date:	2003-03-03
Spill Number:	8704437
Spill Date:	1987-08-28
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	ADMIN. CLOSED
Referred To:	Not reported

CLOSED-LACKOF RECENT INFO (Continued) **S100144750**

Reported to Dept:	1987-08-28
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1987-09-04
Spill Record Last Update:	2003-03-19
Spiller Name:	Not reported
Spiller Company:	ST. JOAN OF ARK
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	262014
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ADMIN.CLOSED 3/3/2003 Closed Due To The Nature / Extent Of The Spill Report"
Remarks:	"5K TANK SYSTEM FAILED HORNER TEST, HIGH VOLUME LEAK, TO ISOLATE AND RETEST. CONTACT REV. KEEHAN AT 212 843-2233.CLOSED DUE TO LACK OF ANY RECENT INFO-DOES NOT MEET ANY CLEAN UP REQUIREMENTS. "

All TTF:

Facility ID:	8704437
Spill Number:	8704437
Spill Tank Test:	1531508
Site ID:	325285
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	325285
Operable Unit ID:	910915
Operable Unit:	01
Material ID:	467076
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L

CLOSED-LACKOF RECENT INFO (Continued) **S100144750**

Recovered: .00
Oxygenate: Not reported

BA270 **EXXONMOBIL** **NY LTANKS** **S102149618**
South **1419 BRUCKNER BLVD** **NY Spills** **N/A**
1/4-1/2 **BRONX, NY**
0.417 mi.
2200 ft. **Site 1 of 2 in cluster BA**

Relative:
Higher

Actual:
19 ft.

LTANKS:

Facility ID:	9112926
Site ID:	297773
Closed Date:	1993-12-14
Spill Number:	9112926
Spill Date:	1991-11-26
Spill Cause:	Tank Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	A3
Cleanup Ceased:	1993-12-14
SWIS:	0301
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1992-03-20
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1992-03-31
Spill Record Last Update:	2003-10-17
Spiller Name:	JOANNE WALLACH
Spiller Company:	EXXONMOBIL
Spiller Address:	3225 GALLLOWS ROAD
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	240917
DEC Memo:	""
Remarks:	"CONTAMINATED SOIL"

All Materials:

Site ID:	297773
Operable Unit ID:	966518
Operable Unit:	01
Material ID:	414474
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00

EXXONMOBIL (Continued) **S102149618**

Oxygenate: Not reported

SPILLS:

Facility ID:	0800186
Facility Type:	ER
Spill Number:	0800186
DER Facility ID:	240917
Site ID:	395902
DEC Region:	2
Closed Date:	2008-06-11
Spill Cause:	Other
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2008-04-04
Investigator:	HRAHMED
Referred To:	Not reported
Reported to Dept:	2008-04-04
CID:	404
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-04-04
Spill Record Last Update:	2008-06-11
Spiller Name:	MELISSA GLIDEN
Spiller Company:	CUMBERLAND 70213
Spiller Address:	1419 BRUCHNER BLVD
Spiller Company:	001
Contact Name:	MELISSA GLIDEN
DEC Memo:	"04/07/08-Zhune spoke to Melissa Gilden from Cumberland Farms (800)225-9702 ext. She said as soon as she will get the paper work she will send it in. 06/11/08-Hasan Ahmed-Phoenix pumped out 30 gallons of gasoline-water mix from the sump. See eDoc for Bill of Lading from Phoenix. This case is closed."
Remarks:	"water in the sump; Phoniex is going to clean it"

All Materials:

Site ID:	395902
Operable Unit ID:	1152845
Operable Unit:	01
Material ID:	2143617
Material Code:	0060A
Material Name:	wastewater
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

EXXONMOBIL (Continued) **S102149618**

Facility ID:	0312363
Facility Type:	ER
Spill Number:	0312363
DER Facility ID:	240917
Site ID:	297772
DEC Region:	2
Closed Date:	2008-08-20
Spill Cause:	Other
Spill Class:	D4
SWIS:	0301
Spill Date:	2004-02-06
Investigator:	JAKOLLEE
Referred To:	Not reported
Reported to Dept:	2004-02-06
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	2004-03-03
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-02-06
Spill Record Last Update:	2008-08-21
Spiller Name:	DEB REBELLO
Spiller Company:	CUMBERLAND FARMS #70213
Spiller Address:	1419 BRUCKNER BLVD
Spiller Company:	001
Contact Name:	DEB REBELLO
DEC Memo:	"Line test failure - Contractor will repair and retest line. TTF letter sent 2/9/2004 02/10/04 - Spoke to Bill Simmons of ECS, hired by Cumberland Farms. ABS Carpet Warehouse located adjacent to gas station has complained of gasoline odors. ECS performed indoor air survey and detected some volatiles coming from cracks in floor. A 3/4-HP blower and duct work has been rigged to abate vapors. USTs are approx 40 feet from wall. DTW is approx 18-19 ft below grade, basement floor approx 6 feet above water table. Bill will send fax summarizing indoor vapor sampling, sealing of floor and wall with hydraulic cement, line failure info, proposed SVE and monitoring well locations. They hope to install SVE wells on Friday, 02/13/04. -Rommel 02/18/04 - STIP emailed to Bill Simmons and mailed certified to Angela Pimental at Cumberland Farms. Deadline for signing and returning, 3/3/04. Rommel 03/08/04 - Effective date of Stip. Rommel 6/7/04 - Email to Bill Simmons, Investigation Summary Report was due 6/6/04. Rommel 06/10/04 - Mailed certified letter to Angela Pimento, Cumberland Farms, conditionally approving Investigation Summary Report dated 6/2/04 therefore requiring the submittal of a RAP within 20 days (as per CAP) on June 29, 2004. Rommel 06/21/04 - Received call from Kevin and Bill Simmons from ECS Marin. They will schedule drilling NE, SE and E of SVE-4, sample existing MW, delineate GW to west and notify DEC. Still gas in indoor air samples. This spill report associated with Super Manhole. Addt'l testing, performed within last month? and inner walls of both Regular & Plus tanks (adjacent) failed. USTs have been emptied and Cumberland Farms is determining whether to close in place or remove. Rommel Indoor air

EXXONMOBIL (Continued) **S102149618**

and SVE sampling scheduled 6/22. Wells scheduled 6/23 and 6/24. RAP deadline extended to 7/15/04 Rommel. >>> Bill Simmons <WSIMMONS@ecsconsult.com> 01/13/05 01:17PM >>> Hello Jennifer, I wanted to let you know that beginning next week (January 18, 2005) Cumberland Farms Inc. shall be removing and replacing five (5) 4,000 gal USTs. Work shall include tank accessories, all meeting NYC requirements; DWFG piping, as required; new dispensers and their accessories; new monitoring system; new fire suppression system; shoring for new tank installation; new island curbs; and repair vent lines, as required. Tyree is contractor. ECS will oversee UST removals and oversight for contaminated soil excavation and post-ex sampling. If you have any questions, please contact myself or Angela Pimental at 800-225-9702. Thank you. -Rommel 06/10/05: Spill transferred from Rommel to J. Kolleeny. - JK 6/23/05: Reviewed UST Closure Report, dated March 2005. End-pt. samples showed residual contamination, especially at north and northwest edges of tank pit. ECS and Tyree put in a 6th SVE well, between USTs 3 & 4, on 6/22/05. Spoke with Bill Simmons of ECS on 6/23/05, telling him DEC must be given 5 days advance notice of fieldwork, and that location of SVE well should be reviewed and approved by DEC. He explained that site conditions limited choice of where to put SVE well, and that it was a field decision made after tanks were removed and new replacement tanks put it, putting in the casing before backfilling tank pit with pea gravel. JK agreed this was better than nothing, but in future efforts should be made to contact and confer with DEC regarding any system modifications. - J. Kolleeny 6/23/05: Reviewed Site Status Update Report for Jan.-Mar. 2005., dated May 2005. JK contacted Bill Simmons of ECS by phone and requested that SVE system effluent data be included in data table in future reports, rather than Appendix, and that results for benzene effluent be converted into lb/hr and compared to benzene discharge limit from Stip agreement (SVE data sheets). Faxed Bill 2 examples of such conversion calculations and monitoring reports presenting benzene data to show compliance with discharge standard. - J. Kolleeny 6/27/05: Received NYSDOH letter approving ECS recommendation to suspend indoor air sampling at adjacent carpet warehouse, but noting that SVE system operation should continue, and that DOH should be consulted at point when system is shut down, to discuss whether any additional indoor air testing is needed. - J. Kolleeny 06/14/06: Reviewed quarterly site status update rpts from 2nd Quarter ’05 through 1st Quarter ’06, and sent email to Bill Simmons of ECS: I’ve reviewed several Site Status Update Rpts (April-June ’05, July-Sept. ’05, Oct.-Dec. ’05 and Jan.-March ’06), and it seems that monitoring wells and SVE wells are showing virtually no remaining GW contamination, and SVE system is recovering minimal quantities of hydrocarbon vapors. I suggest ECS advance some soil borings in locations where soil contamination was identified in past investigations, to evaluate extent to which SVE system has cleaned up soil. (Do you have site plan showing historic soil data?) If you agree with idea of doing confirmation soil sampling to evaluate remedial progress, please put together work plan for soil investigation. - J. Kolleeny 03/05/07: Reviewed ECS Site Status Update Rpt for April-Sept.’06, dated Nov.’06 and received 12/13/06. GW results from Sept.’06 show minimal GW contamination remaining, and SVE system performance data show little or no hydrocarbon vapor recovery, suggesting system has reached limit of effectiveness. Report states that ECS will put together soil investigation work plan to evaluate soil remediation progress. Also,

EXXONMOBIL (Continued) **S102149618**

spoke with Bill Simmons of ECS on 3/5/07 and agreed that ECS will prepare confirmation soil sampling plan, which will include most recent GW data from Jan. '07. Sent an email confirming this (cc to Chris Johnson of Cumberland Farms), and asked for electronic copy of Site Status report (now in eDocs). - J. Kolleeny 05/11/07: Reviewed ECS's Site Status Update Report for Oct. '06 - March '07 and Confirmation Soil Boring Work Plan dated 4/30/07 and 5/3/07, respectively. Site Status Update Report presents monitoring data for on-site SVE system (currently not operational) and results of recent and historic groundwater sampling. SVE system data suggest that system may have reached limit of effectiveness, and recent GW data show low levels of petroleum contaminants remaining in a few on- and off-site wells. Based on GW data, ECS asked that NYSDEC consider discontinuing GW monitoring program. Confirmation Soil Boring Work Plan proposes advancing three (3) soil borings to 25 feet below grade at locations where soil contamination was previously identified, to evaluate whether SVE system has effectively addressed contam. I sent letter (in eDocs) to Christopher Johnson of Cumberland Farms (cc'd Bill Simmons of ECS) approving work plan but asking for additional soil boring near well ECS-4, full round of GW sampling, and analysis of soil & GW samples full range of VOCs, and noting that future reports should include site location figure. - J. Kolleeny 06/14/07: Received email from Bill Simmons of ECS on 6/12/07, saying he'd met with adjacent property owner (ABC Carpet Warehouse), and owner is adamantly refusing to allow any drilling on his property (i.e., in alleyway), or in sidewalk in front of his property. I called Bill Simmons on 6/14/07 and agreed that in light of this circumstance, ECS could eliminate boring I requested in sidewalk, and relocate boring in alleyway further to south, onto Cumberland Farms' property, so total no. of borings will be 3. Drilling planned for late June. - JK 02/28/08: Reviewed Confirmatory Soil Boring & GW Investigation Closure Report by ECS, dated 2/14/08, received on 2/19/08. Report summarizes confirmation soil sampling done on 11/27/07 and GW sampling done on 1/29/08. Three soil borings were advanced near north edge of gas station property, near wells SVE-4 and SVE-5, where soil contam was identified in past. Boring CSB-1B (near SVE-5) and boring CSB-2B (near SVE-4) had PID readings of 39 and 35.4 ppm, resp., in 19-21 ft. interval, but no compounds above TAGM 4046 RCO's. Boring CSB-2B in 23-25 ft. interval had benzene exceedance, 106 ug/kg. GW results showed 2 exceedances: 1.3 ug/L of benzene in SVE-2 (in alley between gas station and warehouse), and 5.9 ug/L of total xylenes in SVE-4. Results suggest SVE system has been effective in addressing soil contam. Review of DEC Remarks showed that Mike Hughes of NYS Dept. of Health wanted chance to decide if addt'l indoor air monitoring at ABC Carpet is warranted prior to spill closure, so I contacted him on 2/26/08. He wanted to talk to owner of warehouse, so I contacted Bill Simmons of ECS for contact info. Bill gave me name Paul Chapman, 718-842-8775; Bill noted that ECS field personnel have asked Mr. Chapman over years if he still has any odors in basement, and he has replied not since mid-2004; in response to my question does carpet bldg have complete or partial basement, Bill said it has complete basement, sent pdf of bldg plan plus photos of Bronx River at rear of bldg (in eDocs). I gave contact info to Mike Hughes (DOH), who contacted Mr. Chapman; Chapman told him he still occassionally smells gasoline odors in basement and store, and also mentioned seeing sheen on nearby Bronx River (behind warehouse and gas station) that he thinks could be related to this spill. I contacted Bill

EXXONMOBIL (Continued) **S102149618**

Simmons and relayed this, and he said Chapman had told him he'd been seeing sheen there since 1970s, long before this spill, and repeated that Chapman had not had any odor complaints for long time. I arranged a conference call on 2/28/08 with Simmons and Hughes to discuss these discrepancies, with outcome that I agreed to contact Mr. Chapman to discuss odor problems and access to alleyway for addt'l soil sampling (which Bill Simmons said Chapman had refused to grant for confirm soil invest). I called Mr. Chapman on 2/28/08, and he said he occassionally smells gasoline in basement and store (esp. when humidity is high), and also said he observed sheen in river only after this spill occurred, suggesting soil west of gas station along river had never been adequately investigated. He agreed to allow access to alley for addt'l soil sampling (denying that he had refused access to ECS) and for indoor air sampling; I promised to provide him copy of work plan for addt'l investigation and cc him on my approval letter. His mailing address is: ABC Carpet & Home Attn: Paul Chapman, Vice Chairman & President 1055 Bronx River Ave. Bronx, NY 10472 I then contacted Bill Simmons of ECS and requested work plan for addt'l invest involving soil borings in alley near SVE-1 and SVE-2, plus boring in parking lot area west-northwest of gas station, and indoor air sampling at location in basement where monthly sampling had been done. To follow up on this conversation and keep RP in loop, I sent email to Chris Johnson of Cumberland Farms, with cc's to Mike Hughes of DOH and Bill Simmons of ECS: I want to fill you in on recent developments regarding this site. I reviewed Confirmatory Soil Boring & GW Investigation Closure Report dated 2/14/08, prepared by ECS. Although data available in report suggest that impacts from spill at this site have largely been addressed, in going through spill file I realized that Mr. Michael Hughes of NYSDOH had requested opportunity to comment on whether or not addt'l indoor air sampling might be appropriate at Carpet Warehouse adjacent to site, prior to closing spill case. I contacted Mr. Hughes, and he contacted owner of adjacent property, Mr. Paul Chapman. Reportedly, Mr. Chapman told Hughes that he still occassionally notices gasoline odors in basement and store. I should also mention that confirmatory soil sampling work done recently by ECS did not include any soil borings in alley between Exxon station and carpet warehouse, where soil contam was detected in past and vapor extraction wells were installed. (Reportedly, borings could not be done in alley because Mr. Chapman would not grant access.) Today, I spoke with Mr. Chapman, who again said he occassionally notices gasoline odors in basement and store. I explained that it would be desirable to sample soil in alley to evaluate whether or not soil impacts observed there in past have been addressed, and he agreed to allow access to alley for drilling and soil sampling. He also stated he has repeatedly observed sheen on Bronx River that he believes may be related to spill at Exxon station, and he expressed concern that soil west of Exxon station (between station and river) has never been adequately investigated. As a result, I have asked Bill Simmons of ECS to prepare work plan to advance addt'l soil borings in alley and in parking lot west-northwest of Exxon station, collect and analyze soil samples from these borings, and perform indoor air sampling in basement of warehouse, at location where monthly indoor air sampling was done in past. Data from this addt'l investigation should make possible more definitive evaluation of spill cleanup. I promised to provide Mr. Chapman with copy of ECS's work plan, and to copy him on my work plan approval letter. If you have any questions or comments about this,

EXXONMOBIL (Continued) **S102149618**

please do not hesitate to contact me. - J. Kolleeny 04/08/08: On 4/1/08 received pdf of Confirmation Soil Boring Work Plan Addendum, dated 4/1/08 by ECS (in eDocs), by email from Bill Simmons of ECS (received hard copy 4/2/08). Plan proposes drilling two soil borings in alleyway between site and ABC Carpet warehouse, adjacent to vapor extraction wells SVE-1 and SVE-2, and a third boring in parking area near west edge of site (towards Bronx River), plus performing indoor air sampling in basement of ABC Carpet, as discussed (see above entry). Email from Bill Simmons stated they'd like to drill borings on 4/22/08 and requested I contact ABC Carpet owner, Paul Chapman, for his permission. I mailed copy of report to Mr. Chapman, and after several attempts to reach him by phone, I spoke with Mr. Chapman on 4/7/08 and he agreed to allow drilling and air monitoring on his property. I sent letter approving work plan, but requesting that if soil impacts are observed in boring near west edge of property, a GW grab sample be taken, to Chris Johnson of Cumberland Farms (cc's to Bill Simmons of ECS and Paul Chapman of ABC Carpet) on 4/7/08 (letter in eDocs). - J. Kolleeny 04/23/08: Visited site on 4/22/08 to observe fieldwork. Boring drilled near NW corner of ABC Carpet Warehouse parking lot, soil in 5'-7' interval had PID reading = 300 ppm, GW at about 20' bgs, GW grab sample taken with bailer after purging well of several bailers' worth of very turbid, silty water (poured some of this into glass jar and let sit, eventually silt settled to fill bottom 1/3 of jar, water above had slight sheen on surface, could be petrol or organic, and very slight petroleum odor, I thought) and letting well recover for several hours. Borings in alley between gas station and warehouse had very little contam.: boring near SVE-2 had 17 ppm on PID for 18'-20' interval, 1 ppm for 20'-22', and boring near SVE-1 had 2 ppm in 18'-20' interval; all else were BDL. Indoor air sample collected with Summa canister from lower level of warehouse; I noticed no petroleum odors, only smells related to carpeting and furniture. Lab results pending. See photos in eDocs image folder. - J. Kolleeny 06/24/08: Received pdf of Confirmatory Soil Boring & GW & Indoor Air Investigation Closure Request Addendum report (in eDocs) via email on 6/6/08 from Bill Simmons of ECS; got hard copy on 6/9/08. Forwarded pdf to Mike Hughes of NYSDOH on 6/11/08 for his review of indoor air data. Reviewing report I noted that GW data table missing compound naphthalene; checked lab data sheets and found that GW grab sample from boring CSB-6, near west edge of ABC Carpet's parking lot, near Bronx River, had exceedance for naphthalene, 119 ug/L. Contacted Bill Simmons and requested that they revise GW data table to include naphthalene, and add mention of exceedance in CSB-6 to text. Received revised text and Table 2 on 6/17/08 (in eDocs). On 6/13/08, received email from Mike Hughes of DOH stating: Levels of petroleum-related compounds in April 08 indoor air sample results for ABC Carpet are similar to background and consistent with sample results from 2005. There does not appear to be any discernable impact from gasoline vapors. Unless your evaluation of soil and GW sample results suggest any potential petroleum vapor concerns, we do not recommend any further air testing at this time. Owner should be advised to contact your office in event gasoline odors should be detected in ABC Carpet building. Report still under review. - J. Kolleeny 08/20/08: In early August, I contacted Bill Simmons of ECS and requested they prepare short discussion of most recent investigation results, focussing on minor exceedances found in soil & GW samples. On 8/4/08 received pdf of Data Evaluation Summary Addendum dated 8/11/08 by ECS (in eDocs), received hard copy on

EXXONMOBIL (Continued) **S102149618**

8/15/08. Document concludes that overwhelming majority of contam originally identified in spill investigation has been addressed, and that residual contam is minor, poses no threat to environment or public, and will naturally attenuate. Also concludes that contam detected in boring at west end of small parking lot is extremely unlikely to have been caused by this spill, considering distance from source, lack of contam detected in intervening borings, and shallow soil interval affected (ruling out GW transport mechanism). Instead, ECS states contam there could be from fill materials, since site is constructed atop former landfill materials. I asked Vadim Brevdo and Amar Nagi of Region 2 DER and Bob Cozzy of DEC Central Office DER to evaluate spill cleanup history and residual soil & groundwater impacts, plus DOH statement regarding indoor air sample. All concluded that spill cleanup has been adequate and that residual impacts pose no significant threat to environment or public health. I closed spill and issued NFA letter (in eDocs) by email and regular mail to Chris Johnson of Cumberland Farms, with cc by email to Bill Simmons of ECS and by regular mail to Mr. Paul Chapman, owner of adjacent Carpet Warehouse. - J. Kolleeny "

Remarks: "LINE TEST FAILED, NOT SURE IF RELEASED INTO GROUND: DOUBLE WLL PIPING: LINE TEST ACU RITE: "

All TTF:

Facility ID:	0312363
Spill Number:	0312363
Spill Tank Test:	1528961
Site ID:	297772
Tank Number:	3
Tank Size:	4000
Material:	0009
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	297772
Operable Unit ID:	877605
Operable Unit:	01
Material ID:	497576
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

Facility ID: 9200539

EXXONMOBIL (Continued) **S102149618**

Facility Type:	ER
Spill Number:	9200539
DER Facility ID:	240917
Site ID:	297774
DEC Region:	2
Closed Date:	1992-04-14
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	1992-04-14
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1992-04-14
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	1992-04-14
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	1992-04-22
Spill Record Last Update:	2003-10-17
Spiller Name:	JOANNE WALLACH
Spiller Company:	EXXONMOBIL
Spiller Address:	3225 GALLOWS ROAD
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	""

All Materials:

Site ID:	297774
Operable Unit ID:	964456
Operable Unit:	01
Material ID:	415325
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9415191
Facility Type:	ER
Spill Number:	9415191
DER Facility ID:	240917
Site ID:	297775
DEC Region:	2
Closed Date:	2003-10-17
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301

EXXONMOBIL (Continued) **S102149618**

Spill Date:	1994-02-17
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1995-02-20
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	1995-03-27
Spill Record Last Update:	2003-10-17
Spiller Name:	JOANNE WALLACH
Spiller Company:	EXXONMOBIL
Spiller Address:	3225 GALLOWS ROAD
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"A LEAKING FILTER ON A GAS PUMP CAUSED SPILL. FILTER WAS REPLACED"

All Materials:

Site ID:	297775
Operable Unit ID:	1012540
Operable Unit:	01
Material ID:	370374
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9502958
Facility Type:	ER
Spill Number:	9502958
DER Facility ID:	240917
Site ID:	297776
DEC Region:	2
Closed Date:	1995-06-08
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	1995-06-09
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1995-06-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	1995-06-08

EXXONMOBIL (Continued) **S102149618**

Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: True
Remediation Phase: 0
Date Entered In Computer: 1995-06-19
Spill Record Last Update: 2003-10-17
Spiller Name: JOANNE WALLACH
Spiller Company: EXXONMOBIL
Spiller Address: 3225 GALLOWS ROAD
Spiller Company: 001
Contact Name: Not reported
DEC Memo: ""
Remarks: "LEAKING FROM DISPENSER - CLEANUP BEING DONE BY EXXON"

All Materials:
Site ID: 297776
Operable Unit ID: 1017548
Operable Unit: 01
Material ID: 368010
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: G
Recovered: .00
Oxygenate: Not reported

Facility ID: 0809752
Facility Type: ER
Spill Number: 0809752
DER Facility ID: 240917
Site ID: 407244
DEC Region: 2
Closed Date: 2009-03-25
Spill Cause: Unknown
Spill Class: C4
SWIS: 0301
Spill Date: 2008-12-01
Investigator: HRAHMED
Referred To: Not reported
Reported to Dept: 2008-12-01
CID: Not reported
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2008-12-01
Spill Record Last Update: 2009-03-25
Spiller Name: AMANDA RODRIGUEZ
Spiller Company: CUMBERLAND FARMS # 70213

EXXONMOBIL (Continued) **S102149618**

Spiller Address: 1419 BRUCKNER BLVD
Spiller Company: 999
Contact Name: AMANDA RODRIGUEZ
DEC Memo: "03/25/09-HRAHMED-Phoenix pumped out 50 gal of water-gas mix. See eDocs for disposal manifest. This case is closed."
Remarks: "CALLER STATES THAT THERE IS WATER IN THE SUMP. PUMP OUT WILL BE DONE BY PHOENIX ENVIRONMENTAL."

All Materials:
Site ID: 407244
Operable Unit ID: 1163797
Operable Unit: 01
Material ID: 2155139
Material Code: 9999
Material Name: other - WATER
Case No.: Not reported
Material FA: Other
Quantity: Not reported
Units: G
Recovered: Not reported
Oxygenate: Not reported

Facility ID: 0810387
Facility Type: ER
Spill Number: 0810387
DER Facility ID: 240917
Site ID: 407906
DEC Region: 2
Closed Date: 2009-04-24
Spill Cause: Other
Spill Class: C4
SWIS: 0301
Spill Date: 2008-12-15
Investigator: HRAHMED
Referred To: Not reported
Reported to Dept: 2008-12-15
CID: Not reported
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2008-12-15
Spill Record Last Update: 2009-04-24
Spiller Name: AMANDA RODRIGUEZ
Spiller Company: CUMBERLAND FARMS # 70213
Spiller Address: 1419 BRUCKNER BLVD
Spiller Company: 999
Contact Name: AMANDA RODRIGUEZ
DEC Memo: "04/24/09-HRAHMED-Tyree pumped out 25 gals from sump. See eDocs for documentation. This case is closed. "
Remarks: "CALLER STATES THAT THERE IS WATER IN THE SUMP. PUMP OUT WILL BE DONE BY TYREE ENVIRONMENTAL."

EXXONMOBIL (Continued) **S102149618**

All Materials:

Site ID:	407906
Operable Unit ID:	1164440
Operable Unit:	01
Material ID:	2155815
Material Code:	9999
Material Name:	other - WATER
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

Facility ID:	0811513
Facility Type:	ER
Spill Number:	0811513
DER Facility ID:	240917
Site ID:	409089
DEC Region:	2
Closed Date:	2009-02-09
Spill Cause:	Other
Spill Class:	C4
SWIS:	0301
Spill Date:	2009-01-20
Investigator:	HRAHMED
Referred To:	Not reported
Reported to Dept:	2009-01-20
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-01-20
Spill Record Last Update:	2009-02-09
Spiller Name:	MELISSA GLIDDEN
Spiller Company:	CUMBERLAND FARMS # 70313
Spiller Address:	1419 BRUCKNER BLVD
Spiller Company:	999
Contact Name:	MELISSA GLIDDEN
DEC Memo:	"02/09/2009-HRAHMED-Tyree pumped out 45 gal of oil-water from the sump. see eDocs. This case is closed. "
Remarks:	"WATER IN THE SUMP. PUMP OUT WILL BE DONE BY TYREE ENVIRONMENTAL."

All Materials:

Site ID:	409089
Operable Unit ID:	1165595
Operable Unit:	01
Material ID:	2157014
Material Code:	9999
Material Name:	other - WATER

EXXONMOBIL (Continued) **S102149618**

Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

Facility ID:	0811830
Facility Type:	ER
Spill Number:	0811830
DER Facility ID:	240917
Site ID:	409418
DEC Region:	2
Closed Date:	2009-04-23
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	2009-01-29
Investigator:	HRAHMED
Referred To:	Not reported
Reported to Dept:	2009-01-29
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-01-29
Spill Record Last Update:	2009-04-23
Spiller Name:	MELISSA GLIDDEN
Spiller Company:	CUMBERLAND FARMS # 70213
Spiller Address:	1419 BRUCKNER BLVD
Spiller Company:	999
Contact Name:	MELISSA GLIDDEN
DEC Memo:	"04/23/09-HRAHMED-Tyree Environmental pumped out 25 gal of gas-water mix. See eDocs for disposal documents. This case is closed."
Remarks:	"WATER IN THE SUMP PUMP OUT WILL BE DONE BY TYREE ENVIRONMENTAL."

All Materials:

Site ID:	409418
Operable Unit ID:	1165925
Operable Unit:	01
Material ID:	2157358
Material Code:	9999
Material Name:	other - WATER
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

EXXONMOBIL (Continued) **S102149618**

Facility ID:	0813765
Facility Type:	ER
Spill Number:	0813765
DER Facility ID:	240917
Site ID:	411463
DEC Region:	2
Closed Date:	2009-04-24
Spill Cause:	Other
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2009-03-20
Investigator:	HRAHMED
Referred To:	Not reported
Reported to Dept:	2009-03-20
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-03-20
Spill Record Last Update:	2009-04-24
Spiller Name:	AMANDA RODRIGUEZ
Spiller Company:	CUMBERLAND FARMS # 70213
Spiller Address:	1419 BRUCKNER BLVD
Spiller Company:	999
Contact Name:	AMANDA RODRIGUEZ
DEC Memo:	"03/20/09-Vought-Duty desk officer. This spill assigned to DEC Ahmed as part of Cumberland Farms portfolio routine spill review and closure audits. 04/24/09-HRAHMED-Non-petroleum spill, weather related. As per discussion with DEC Austin and DEC Krimgold, this spill is closed. "
Remarks:	"WATER IN THE SUMP PUMP WILL BE DONE BY TYREE."

All Materials:

Site ID:	411463
Operable Unit ID:	1167939
Operable Unit:	01
Material ID:	2159562
Material Code:	9999
Material Name:	other - WATER
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

Facility ID:	0902406
Facility Type:	ER
Spill Number:	0902406
DER Facility ID:	240917
Site ID:	414448

EXXONMOBIL (Continued) **S102149618**

DEC Region:	2
Closed Date:	2009-06-04
Spill Cause:	Other
Spill Class:	C4
SWIS:	0301
Spill Date:	2009-05-29
Investigator:	HRAHMED
Referred To:	Not reported
Reported to Dept:	2009-05-29
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-05-29
Spill Record Last Update:	2009-06-04
Spiller Name:	Not reported
Spiller Company:	CUMBERLAND FARMS
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	MELISSA
DEC Memo:	"06/04/09-Wastewater entered in the sump, weather related. This case is closed. "
Remarks:	"1538 The caller advised dispatch the spill was due to weather conditions causing the sump to fill up with waste water. Clean up will be conducted by Phoenix Environmental."

All Materials:

Site ID:	414448
Operable Unit ID:	1170833
Operable Unit:	01
Material ID:	2162601
Material Code:	0060A
Material Name:	wastewater
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

Click this hyperlink while viewing on your computer to access
1 additional NY SPILL: record(s) in the EDR Site Report.

271
South
1/4-1/2
0.417 mi.
2203 ft.

U- HAUL
1365 BRUCKNER BLVD
BRONX, NY

NY LTANKS **S101658297**
N/A

Relative:
Higher

Actual:
40 ft.

LTANKS:

Facility ID:	9407671
Site ID:	150546
Closed Date:	2007-06-29
Spill Number:	9407671
Spill Date:	1994-09-08
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	B4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	aaobliga
Referred To:	Not reported
Reported to Dept:	1994-09-08
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1994-10-25
Spill Record Last Update:	2007-06-29
Spiller Name:	Not reported
Spiller Company:	U- HAUL
Spiller Address:	1365 BRUCKNER BLVD
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	128012
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 4/12/04-Vought-Spill transferred from Miller to Vought as per Rommel. 3/10/05-Vought-Spoke to Mike Morris (ATC 212-353-8280x345) who is requesting site status. Vought told him to call back in two weeks if DEC has not contacted him with review results. 3/17/2004-File review by Vought: Underground Storage Tank Closure Plan (Tone Tank and Pump) Dec 1993. The facility is bounded on the south by Bruckner Blvd, on the north, east and west by commercial properties . The site contains twelve (550-gallon) gasoline USTs and one (550-gallon) fuel oil UST. Report covers procedures for tank contents removal, purging of vapors, cleaning of tanks, tank removal, laboratory analysis, waste disposal, reports and recommendations. Final Site Assessment Work Plan-5/27/94. Revised Final Site Assessment Workplan-7/8/94. Fax from American Hi-Tech-10/13/94. Fuel oil excavation endpoints. Six sidewall endpoints and two bottom endpoints collected. Sample analyticals show only minor SVOC exceedences attributable to fill material. Fax from American Hi-Tech-10/13/94. Gasoline UST excavation endpoints. Eight endpoint soil samples taken from sidewall of excavation and no bottom endpoint samples were collected. Soil analyticals show 2300ppb xylene(TB1 at

U- HAUL (Continued) **S101658297**

8’bg), 9800ppb xylene(TB3 at 10’bg), 1100ppb MTBE(TB3 at 10’bg), 620ppb benzene(TB4 at 8’bg), 18000ppb toluene(TB4 at 8’bg), 33000ppb ethylbenzene(TB4 at 8’bg), 120000ppb xylene(TB4 at 8’bg). Site Assessment Report (American Hi-Tech)-10/31/94. The gasoline tanks had on dispenser island located approximately ten feet away from the tanks . One soil sample was collected as dispenser island and showed no TAGM 4046 Soil Cleanup Objective exceedences. Report recommends that additional remedial activity may be warranted for both the heating oil and gasoline tank excavations . 3/17/05-Vought-DEC requires: 1)groundwater sample at former UST tankfield in particular at former sidewall sample location TB4 and TB3. Vought sent letter with above requirement on 3/17/05. 4/5/05-Vought-Received message from Michael Morris. Vought returned call and left message to return call to DEC. Vought received message from Morris. 4/6/05-Vought-Called Morris (212-353-8280x345) and left message to return call to DEC. Vought spoke to Morris and he will perform groundwater sampling at required locations. If contamination is found additional Geoprobe locations will be performed as opposed to installation of monitoring wells. 6/8/05-Vought-Reviewed Remedial Action Report (ATC Associates) dated 5/5/05 and received on 5/13/05. Six soil borings were performed at site. Based on these findings, petroleum impacted soils remain at the Site. The extent of soil contamination appears to be delineated to the west; however, additional delineation is required to the north, south and east . Additionally ATC recommends that a groundwater monitoring well be installed by a hollow stem auger drill rig to evaluate if groundwater beneath the Site has been impacted . 121.69 tons of soil were removed with UST removal. Four soil samples were collected for analysis. Soil analyticals show: 11000ppb ethylbenzene(B3 8-10’bg), 50200ppb xylenes(B3 8-10’bg), 5290ppb toluene(B4B 8-9’bg), 84800ppb ethylbenzene(B4B 8-9’bg), 301ppb xylene(B4B 8-9’bg). Vought sent letter approving of installation of proposed monitoring wells and delineation to the north, south and east. 8/5/05-Vought-Received call from Michael Moore (ATC) and bedrock encountered at 19-21’ below grade. Vought agreed that no groundwater sample is required if clean soil encountered before bedrock. Delineation investigation will be performed via hollow stem auger. 9/26/05 - Obligado- FILE TRANSFERRED FROM VOUGHT TO OBLIGADO 1/10/06 - Obligado - Received phone call from Charlie Talinger -ATC - (212)353-8280. Said they did a soil investigation with 6 borings. Will send the report. 2/23/06 - Obligado - phone call from Charlie Tallinger, asked if DEC hs reviewed subsurface investigation report yet. Told him it has not been reviewed. 2/24/06 - Obligado - Review subsurface investigation report. Impacts at only 1 additional boring location, B9, located south of the former USTs at the 5-6 ft depth interval. Bedrock in this well was located at 15 ft bgs. Soil results in ppb showed 6850 n-propylbenzene, 15,200 1,2,4 trimethlybenzene, 8,300 xylenes. Requests closure based on, UST source removed, no grossly impacted soils remain beneath the Site, and no impacted soils were observed near the soil/bedrock interface. 4/11/06 - Obligado - Sent letter denying no further action due to soil contamination. Required submission of RAP to remediate soil contamiation due 6/11/06 6/9/06 - Obligado - Email request for deadline extension from Michael Morris. Granted 1 month extension, new due date is July 11, 2006. 9/18/06 - Obligado - Spoke to Cecil Flekton of Environmental Resource Management (315-445-2554 ext 27 and 315-506-9537), she is new consultant for this site. Because of the change in consultant I gave

U- HAUL (Continued) **S101658297**

a new RAP deadline of October 13, 2006. 10/9/06 - Obligado - Received Email from Cecil Flekton. They received all the files transferred from ATC. 10/20/06 - Obligado - Spoke to Cecil Flekton, she said the RAP will be ready 11/27/06 11/17/06 - Obligado - Reviewed RAP for soil vapor extraction to treat vadose soil contamination. Install extraction well and vacuum monitoring points in December 2006. Conduct SVE pilot test in January 2007. Submit SVE Pilot Test Report by February 2007. Approved RAP, sent Robert Fraley approval letter via certified mail. 1/3/07 - Obligado - Emailed Cecile Flekton to inquire in SVE well and vapor monitoring points have been installed. Reply: The extraction well and vapor monitoring points are scheduled for installation next week, January 8 -9th. And the pilot is tentatively schedule for January 15 -18th. 1/23/07- Obligado - Email from Flekton - completed the installation of the vapor monitoring points and extraction well during the week of January 8th and completed the SVE pilot test last week (week of the 15th). The SVE pilot went well and we are currently compiling the data 3/1/07 - Obligado - Spoke with Flekton. She said the SVE pilot was not successful. The radiu of influence was only 6' and there was high flow with low vacuum suggesting short circuiting possibly through utilily conduit. She will submit a report and she recommends doing limited excavation instead since soils are only 9' deep. 4/13/07 - Obligado - Review Rrevised RAP. SVE pilot test was not successful. Poor vacuum influence might have been due to short circuiting. Proposes source removal via excavation of contaminated soil instead of SVE. Plans to excavate up to 300 cubic yards of soil. Plan includes a CAMP with site monitoring for VOCs with a PID. I called Cecile Fleckton to discuss. I asked if they would be stockpiling any contaminated soil on site. She said no and that the contaminated soil would be transported off-site the same day. I told her that if they do need to stockpile then piles should be staged on and covered with tarps to prevent storm water runoff and control odors. I told her I would approve the RAP. 4/17/07 - Obligado - Sent RAP approval letter via mail and emailed cc to Cecile. 5/1/07 - Obligado - Cecile Fleckton called to update on status of excavation work, she said contamination was deeper then the 9 ft interval documented in the reports. I told her to excavate as deep as health and safety constraints would allow to remove as much contaminated soil as possible. 5/2/07 - Obligado - Met Bill Marris on site to see excavation. At time of visit there were two open excavations. A large stockpile (~200 cubic yards) of soil on northern portion of the site resting on tarps. Area around b4 and b4b had already been excavated and soil endpoints had been collected and the holes backfilled. In central portion of tank area a test pit was dug down to 12 ft where PID readings were ~400 ppm at bottom, but could not go any further down due to large boulders. According to onsite staff additional excavation needed to be performed north of B3, west of test pit area, and in B1 area. 5/10/07 - Obligado - Email from Cecile Fleckton. 4 unknown USTs were found at the site. They are in the process of being removed. Excavation expected to proceed until next Thursday. 6/21/07 - Obligado - UST Closure report received by DEpartment. 575.99 tons of contaminated soil removed from the site and transported to Soil Safe Inc. of Bridgeport NJ. 4 previously unknown abandoned USTs were removed as well. Endpoint sampling below SCOs for VOCs for 16 of 19 soil samples. Most samples had minor SVOC PAH exceedences. Of 3 soil samples with VOC exceedences, 1 sample EX5E had 3770 ppb 1,3,5 trimethlybenzene, 470 ppb over limit. Sample EX 5SW was 360 ppb over

U- HAUL (Continued) **S101658297**

the same limit and 100 ppb over the xylene limit. EX5SE was the only sample with significant impacts over SCO limits. 1,3,5 trimethly benzene was 24,000 ppb, while the limit is 3,300 and total xylenes was 12,300 ppb, while the limit is 1200. 4 other compounds exceeded SCOS of this sample as well. Waste manifests were included. I discussed this site with Joe Sun. We agreed to close the site based on the following: 1) only 1 sample had significant exceedences of SCOs. 2) There was an 87% reduction in total VOC concentrations from the hottest sample collected before and the hottest sample collected after excavation. 3) 600 tons of contaminated soil removed and properly disposed of 4) Bedorck at 20 ft and no ground water encountered above the bedrock 5) 4 additional USTs were found and removed so no known source of contamination is remaining. 6) Remaining soil contamination is of limited extent. Send NFA to Cecile and Uhaul. "

Remarks: "EXCAVATING TANKS- FOUND CONTAMINATED SOI WILL STOCKPILE & SAMPLE"

All Materials:

Site ID:	150546
Operable Unit ID:	1005265
Operable Unit:	01
Material ID:	380672
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

BB272 **1035 WHEELER AVENUE** **NY LTANKS** **S102147495**
SSE **1035 WHEELER AVENUE** **NY Spills** **N/A**
1/4-1/2 **BRONX, NY**
0.423 mi.
2236 ft. **Site 1 of 2 in cluster BB**

Relative: **Higher**
Actual: **19 ft.**

LTANKS:

Facility ID:	9611589
Site ID:	60767
Closed Date:	1996-12-30
Spill Number:	9611589
Spill Date:	1996-12-20
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	ADZHITOM
Referred To:	Not reported
Reported to Dept:	1996-12-21
CID:	266
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False

1035 WHEELER AVENUE (Continued) **S102147495**

UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1996-12-21
Spill Record Last Update:	1997-01-02
Spiller Name:	Not reported
Spiller Company:	CEASAR BORRERO
Spiller Address:	1035 WHEELER AVENUE
Spiller County:	001
Spiller Contact:	CEASAR BORRERO
Spiller Phone:	(718) 842-1667
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	59259
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHITOMIRSKY "
Remarks:	"CUSTOMER ORDERED TOO MUCH OIL. OIL SPRAYED ON OUTSIDE OF RESIDENCE AND ONTO CONCRETE. CLEANED UP."

All Materials:

Site ID:	60767
Operable Unit ID:	1042964
Operable Unit:	01
Material ID:	569600
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	5.00
Oxygenate:	Not reported

SPILLS:

Facility ID:	9311691
Facility Type:	ER
Spill Number:	9311691
DER Facility ID:	59259
Site ID:	60766
DEC Region:	2
Closed Date:	1993-12-31
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	1993-12-30
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	1993-12-31
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	1993-12-31
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False

1035 WHEELER AVENUE (Continued) **S102147495**

Remediation Phase:	0
Date Entered In Computer:	1994-01-04
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	""
Remarks:	"OVER ORDERED - ORDERED 125 GAL - CAME OUT AT 71 GAL. APPLYING SORBENT TO CLEAN UP."

All Materials:

Site ID:	60766
Operable Unit ID:	990311
Operable Unit:	01
Material ID:	390717
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	Not reported
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	1011046
Facility Type:	ER
Spill Number:	1011046
DER Facility ID:	399556
Site ID:	444669
DEC Region:	2
Closed Date:	2011-02-11
Spill Cause:	Equipment Failure
Spill Class:	D4
SWIS:	0301
Spill Date:	2011-02-01
Investigator:	vszhune
Referred To:	Not reported
Reported to Dept:	2011-02-01
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-02-01
Spill Record Last Update:	2011-02-11
Spiller Name:	Not reported
Spiller Company:	SUPER FUEL
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	TIM BUNYAN

1035 WHEELER AVENUE (Continued) **S102147495**

DEC Memo: "DEC Piper spoke with Tim Bunyon from super fuel. Spill from truck due to broken fitting. leak stopped at valve. spprox 50 gal ot street and snow. Super fuel will drum cont snow spread sand. Eastmond to remove drums. 02/11/11- Zhune spoke to Timm. As per Tim spill all cleanedup. Eastmond removed drum. A copy of manifest was received 02/11/11. Spill Closed. "
Remarks: "spill to paved road surface/spill contained/clean up underway"

All Materials:
Site ID: 444669
Operable Unit ID: 1195114
Operable Unit: 01
Material ID: 2191107
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 50.00
Units: G
Recovered: Not reported
Oxygenate: Not reported

273
SSW
1/4-1/2
0.424 mi.
2239 ft.

1025 ALDUS STREET **NY LTANKS** **U003389172**
1025 ALDUS STREET **NY AST** **N/A**
BRONX, NY

Relative:
Higher

Actual:
49 ft.

LTANKS:
Facility ID: 9211493
Site ID: 117140
Closed Date: 1993-01-07
Spill Number: 9211493
Spill Date: 1993-01-06
Spill Cause: Tank Overfill
Spill Source: Tank Truck
Spill Class: C4
Cleanup Ceased: 1993-01-07
SWIS: 0301
Investigator: CAMMISA
Referred To: Not reported
Reported to Dept: 1993-01-06
CID: Not reported
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
Meets Standard: True
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1993-01-08
Spill Record Last Update: 2004-09-30
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller County: 001
Spiller Contact: Not reported

1025 ALDUS STREET (Continued) **U003389172**

Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 101907
DEC Memo: ""
Remarks: "CONTAINED IN TANK ROOM CALLER DOING CLEANUP"

All Materials:
Site ID: 117140
Operable Unit ID: 978465
Operable Unit: 01
Material ID: 404892
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 600.00
Units: G
Recovered: .00
Oxygenate: Not reported

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-294586
Program Type: PBS
UTM X: 593786.71280
UTM Y: 4519734.75945
Expiration Date: 07/14/2022
Site Type: Private Residence

Affiliation Records:
Site Id: 13486
Affiliation Type: Facility Owner
Company Name: KRAUS MANAGEMENT INC
Contact Type: DIRECTOR OF FIELD OPERATIONS
Contact Name: JULIE PERALTA
Address1: 33-01 VERNON BLVD.
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11106
Country Code: 001
Phone: (718) 274-5000
EMail: JP@KRAUSINC.COM
Fax Number: Not reported
Modified By: MFLEONAR
Date Last Modified: 2017-11-08

Site Id: 13486
Affiliation Type: Mail Contact
Company Name: KRAUS MANAGEMENT INC
Contact Type: DIRECTOR OF FIELD OPERATIONS
Contact Name: JULIE PERALTA
Address1: 33-01 VERNON BLVD.
Address2: Not reported

1025 ALDUS STREET (Continued) **U003389172**

City:	LONG ISLAND CITY
State:	NY
Zip Code:	11106
Country Code:	001
Phone:	(718) 274-5000
EMail:	JP@KRAUSINC.COM
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-11-08

Site Id:	13486
Affiliation Type:	Facility Operator
Company Name:	ALDUS GREEN
Contact Type:	Not reported
Contact Name:	KRAUS MANAGEMENT INC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 274-5000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	13486
Affiliation Type:	Emergency Contact
Company Name:	KRAUS MANAGEMENT INC
Contact Type:	Not reported
Contact Name:	JULIE PERALTA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 274-5000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2017-11-09

Tank Info:

Tank Number:	001
Tank Id:	15370
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

L09 - Piping Leak Detection - Exempt Suction Piping
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser

1025 ALDUS STREET (Continued) **U003389172**

I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/18/1977
Capacity Gallons:	5000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MFLEONAR
Last Modified:	11/08/2017
Material Name:	#2 fuel oil (on-site consumption)

BC274 **1095 SOUTHERN BLVD.- OFF-SITE** **NY BROWNFIELDS** **S110748432**
SW **1095 SOUTHERN BLVD.** **N/A**
1/4-1/2 **BRONX, NY 10459**
0.430 mi.
2268 ft. **Site 1 of 2 in cluster BC**

Relative:
Higher

Actual:
59 ft.

BROWNFIELDS:

Program:	BCP
Site Code:	442053
Acres:	0.23
HW Code:	C203055
SWIS:	0301
Town:	New York City
Record Added Date:	11/16/2010
Record Updated Date:	05/23/2018
Update By:	JHOCONNE
Site Description:	Location: The site is located at 1095 Southern Boulevard in the Bronx. It is bordered by Southern Boulevard to the east, residential buildings immediately adjacent to the north and west, and a commercial building immediately adjacent to the south. Further east across Southern Boulevard are commercial properties. Site Features: The site is approximately 0.23 acres and is currently vacant and unused. The previous on-site building was destroyed in a fire in 2008. Current Zoning and Land Use: The site is currently vacant and undeveloped, following a fire in 2008 which destroyed the on-site building. The site is zoned R7-1 (residential district), with a C2-4 commercial overlay meaning that it can be used for residential, commercial, or mixed (residential plus commercial) use. Past Use of the Site: The site has historically been used for several commercial uses including, most recently, as a dry cleaning facility. It appears that chlorinated solvents detected on-site are related to the historical dry cleaning use. Site Geology and Hydrogeology: The elevation of the site is approximately 59 feet above mean sea level. Bedrock has been identified at a depth of approximately 24 feet below surface grade. The depth to groundwater beneath the site is approximately 9 feet to 11 feet below ground surface. The groundwater flow direction beneath the site is east.

1095 SOUTHERN BLVD.- OFF-SITE (Continued) **S110748432**

Env Problem: Nature and extent of contamination: The contaminants of concern are chlorinated solvents, consistent with the previous use of the site for dry cleaning. Tetrachloroethylene (PCE) and its breakdown products have been detected in soil, groundwater, and soil vapor. Soil - Chlorinated volatile organic compounds (cVOCs) are present in soil predominantly near the eastern border of the site, in the depth range of 14 feet to 20 feet below surface grade. Concentrations of chlorinated VOCs exceed the Unrestricted Use Soil Cleanup Objectives (UUSCOs) in 4 of 14 on-site soil borings, all on the east side of the site. In these borings, PCE was detected as high as 1,200 parts per million (ppm); trichloroethylene (TCE) as high as 120 ppm; and cis-1,2-dichloroethene (DCE) as high as 40 ppm. In comparison, the UUSCOs for these contaminants, respectively, are: 1.3 ppm, 0.47 ppm, and 0.25 ppm. Low concentrations of petroleum-related VOCs and semi-volatile organic compounds (SVOCs) were detected on site, at concentrations below the UUSCOs. Metals detected in soil at concentrations exceeding the UUSCO include: trivalent chromium at 33.8 ppm (UUSCO is 30 ppm); copper at 122 ppm (UUSCO is 50 ppm); lead at 357 ppm (UUSCO is 63 ppm); and zinc at 618 ppm (UUSCO is 109 ppm). Groundwater - The contaminants of concern in groundwater are cVOCs. Similar to soil, concentrations are highest in monitoring wells installed in the eastern portion of the site. PCE and its breakdown products were detected at levels exceeding NYSDEC Ambient Ground Water Quality Standards (AGWQS) in 9 of 11 on-site overburden groundwater monitoring wells, in addition to one monitoring well installed in the sidewalk to the east of the site. Contaminants include: PCE as high as 66,000 parts per billion (ppb) compared to the AGWQS of 5 ppb; TCE as high as 17,000 ppb on-site and 52,000 ppb in an off-site well, compared to AGWQS of 5 ppb; DCE as high as 63,000 ppb compared to AGWQS of 5 ppb; and vinyl chloride detected as high as 7,920 ppb on-site and 13,000 ppb in an off-site well, compared to AGWQS of 2 ppb. These contaminants were also detected in a bedrock monitoring well, at lesser concentrations (the maximum concentration detected in bedrock groundwater was TCE at 410 ppb). Soil vapor - The contaminants of concern are present in on-site soil vapor. PCE was detected as high as 2,800 micrograms per cubic meter (ug/m3) and TCE as high as 280 ug/m3.

Health Problem: Contaminated groundwater at the site is not used for drinking or other purposes and the site is served by a public water supply that obtains water from a different source not affected by this contamination. Access to the site is restricted and contact with contaminated soil is unlikely unless persons dig below the ground surface. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into the overlying buildings and affect indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because the site is vacant, the inhalation of site-related contaminants due to soil vapor intrusion does not represent current concern. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site redevelopment and occupancy. Off-site soil vapor intrusion sampling has not identified any exposures to date. However, additional sampling is recommended as part of the off-site portion of this project.

Dump: False
Structure: False
Lagoon: False

1095 SOUTHERN BLVD.- OFF-SITE (Continued) **S110748432**

Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	11/16/2010 11:42:00 AM
Record Upd:	9/20/2013 2:22:00 PM
Updated By:	ldennist
Own Op:	Applicant/Requestor
Sub Type:	P03
Owner Name:	Paloma Hernandez
Owner Company:	Urban Health Plan, Inc.
Owner Address:	1065 Southern Blvd.
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 10459
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Hunt’s Point Library
Owner Address:	877 Southern Boulevard
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 10456
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	06
Owner Name:	Paloma Hernandez
Owner Company:	1095 Southern Boulevard Urban LLC
Owner Address:	1065 Southern Boulevard
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 10459
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	NYS DEC Region 2
Owner Address:	Division of Environmental Remediation
Owner Addr2:	47-40 21st Street
Owner City,St,Zip:	Long Island City, NY 11101
Owner Country:	United States of America
Own Op:	Applicant/Requestor
Sub Type:	P03
Owner Name:	Paloma Hernandez
Owner Company:	1095 Southern Boulevard Urban LLC
Owner Address:	1065 Southern Blvd
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 10459
Owner Country:	United States of America
Own Op:	Applicant/Requestor
Sub Type:	P03
Owner Name:	Jeff Kane
Owner Company:	1095 Southern OpCo LLC
Owner Address:	199 West Road, Suite 101
Owner Addr2:	Not reported
Owner City,St,Zip:	Pleasant Valley, NY, NY 12569
Owner Country:	United States of America

1095 SOUTHERN BLVD.- OFF-SITE (Continued) **S110748432**

Own Op:	Applicant/Requestor
Sub Type:	P03
Owner Name:	Jeff Kane
Owner Company:	1095 Southern HoldCo LLC
Owner Address:	199 West Road, Suite 101
Owner Addr2:	Not reported
Owner City,St,Zip:	Pleasant Valley, NY 12569
Owner Country:	United States of America
Own Op:	Applicant/Requestor
Sub Type:	P03
Owner Name:	Jeff Kane
Owner Company:	1095 Southern III LLC
Owner Address:	199 West Road, Suite 101
Owner Addr2:	Not reported
Owner City,St,Zip:	Pleasant Valley, NY 12569
Owner Country:	United States of America
Own Op:	Applicant/Requestor
Sub Type:	P03
Owner Name:	Jeff Kane
Owner Company:	1095 Southern IV LLC
Owner Address:	199 West Road, Suite 101
Owner Addr2:	Not reported
Owner City,St,Zip:	Pleasant Valley, NY 12569
Owner Country:	United States of America
HW Code:	C203055
Waste Type:	DICHLOROETHYLENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203055
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203055
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203055
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203055
Waste Type:	BROMOCHLOROMETHANE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203055
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203055
Waste Type:	VINYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203055
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203055

1095 SOUTHERN BLVD.- OFF-SITE (Continued) **S110748432**

Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203055
Waste Type:	1,1 Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported
Program:	BCP
Site Code:	461295
Acres:	0.23
HW Code:	C203055A
SWIS:	0301
Town:	New York City
Record Added Date:	02/23/2012
Record Updated Date:	02/27/2018
Update By:	JHOCONNE
Site Description:	Location: The site C203055A is the off-site area associated with BCP site C203055, which is located at 1095 Southern Boulevard in the Bronx. The off-site area was defined to reflect the potential migration of contaminants from the BCP site, and includes the eastern sidewalk of Southern Boulevard across from the BCP site; and the buildings adjacent to the BCP site on the north, south, and west. Site Features: The off-site area consists of the residential buildings immediately adjacent to the north and west of 1095 Southern Blvd, a commercial building immediately adjacent to the south, and Southern Blvd to the east followed by a parking lot further east across Southern Blvd. To the northeast and southeast across Southern Blvd are mixed commercial/residential buildings. The BCP site at 1095 Southern Boulevard is vacant. Current Zoning/Uses: The off-site area consists of residential and commercial buildings. The BCP site at 1095 Southern Boulevard is currently vacant, undeveloped, and is zoned R7-1 (residential district), with a C2-4 commercial overlay meaning that the property can be used for residential, commercial, or mixed (residential plus commercial) use. The proposed on-site development is for an office building, with below-grade parking. Past Use of the Site: The BCP site C203055 has historically been used for several commercial uses including, most recently, a dry cleaning facility. Site Geology and Hydrogeology: The elevation at the BCP site is approximately 59 feet above mean sea level. Bedrock has been identified at depths ranging from 12 to 24 feet below surface grade. The depth to groundwater beneath the site is approximately 9 feet to 12 feet below ground surface. The groundwater flow direction beneath the site is east.
Env Problem:	This site represents an off-site project to investigate the area surrounding, and downgradient of, BCP Site C203055 (1095 Southern Blvd). The investigation determined that no further action is required. Nature and extent of contamination: The contaminants of concern at BCP site C203055 are chlorinated solvents, consistent with the previous use of the site as a dry cleaner. Chlorinated solvents including tetrachloroethylene (PCE) and its breakdown products have

1095 SOUTHERN BLVD.- OFF-SITE (Continued) **S110748432**

been detected in soil, groundwater, and soil vapor in the subsurface of site C203055. Chlorinated solvents were therefore the focus of the investigation for the off-site project. Soil: The off-site investigation did not include soil analysis since there was no reason to believe that contaminants were disposed off-site. Groundwater: During the remedial investigation for the BCP site, elevated concentrations of chlorinated solvents were detected in groundwater in one off-site monitoring well located on the sidewalk just outside the property boundary. At this location, PCE was detected at 51,000 parts per billion (ppb); trichloroethylene (TCE) was detected at 52,000 ppb; and cis-1,2-dichloroethylene was detected at 12,000 ppb. The applicable groundwater quality standard for each of these contaminants is 5 ppb. Vinyl chloride was also detected at 13,000 ppb compared to the standard of 2 ppb. An off-site investigation was performed to determine if these contaminants were migrating further off-site. Groundwater samples were collected from both permanent monitoring wells and grab samples across Southern Boulevard, in the downgradient direction of groundwater flow. No contaminants of concern were detected in these samples. The extent of off-site contamination appears to be limited to the area just outside the property boundary from the highest area of on-site contamination. Soil vapor and indoor air: Soil vapor intrusion evaluations were performed in the two buildings immediately adjacent to the north and south of the site, and two buildings to the west of the site. In the sub-slab soil vapor samples, PCE was detected at a maximum of 52 micrograms per cubic meter (mcg/m3) in one building; however, it was not detected in the indoor air samples collected from that building. In the indoor air samples from other buildings, PCE was detected at a maximum of 8.7 mcg/m3. Based on the sampling that was conducted actions were not needed to address exposures related to soil vapor intrusion. To the east of the site, two soil vapor samples were collected from beneath the sidewalk across Southern Boulevard. PCE was detected at concentrations of 45 mcg/m3 and 6.2 mcg/m3. Trichloroethene (TCE) was also detected at concentrations of 5.4 mcg/m3 and 0.37 mcg/m3. Based on these sampling results and other site-related information no additional actions were recommended.

Health Problem: People are not drinking contaminated groundwater because the area is served by a public water supply not affected by the site. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Environmental sampling indicates that soil vapor intrusion is not a concern for buildings adjacent to the 1095 Southern Boulevard site.

Dump: Not reported
Structure: Not reported
Lagoon: Not reported
Landfill: Not reported
Pond: Not reported
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: Not reported
Record Upd: Not reported
Updated By: Not reported

1095 SOUTHERN BLVD.- OFF-SITE (Continued) **S110748432**

Own Op:	Not reported
Sub Type:	Not reported
Owner Name:	Not reported
Owner Company:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Country:	Not reported
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

275
ENE
1/4-1/2
0.432 mi.
2283 ft.

1605 E 174TH ST
1605 E 174TH ST
BRONX, NY

NY LTANKS **S101341219**
N/A

Relative:
Higher

Actual:
23 ft.

LTANKS:

Facility ID:	9112455
Site ID:	198463
Closed Date:	1992-03-06
Spill Number:	9112455
Spill Date:	1992-03-06
Spill Cause:	Tank Overfill
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Not reported
Cleanup Ceased:	1992-03-06
SWIS:	0301
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	1992-03-06
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1992-03-11
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	NYCHA/BX RIVER HOUSES
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	165175

1605 E 174TH ST (Continued) **S101341219**

DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG "
Remarks: "WINSTON DISPOSED SORBENT & EXCAVATED SOIL."

All Materials:
Site ID: 198463
Operable Unit ID: 962786
Operable Unit: 01
Material ID: 417430
Material Code: 0002A
Material Name: #4 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 30.00
Units: G
Recovered: .00
Oxygenate: Not reported

276
NNW
1/4-1/2
0.445 mi.
2350 ft.

1800 SOUTHERN BOULEVARD **NY BROWNFIELDS** **S109321475**
1776-1778 AND 1800-1808 SOUTHERN BOULEVARD **N/A**
BRONX, NY 10460

Relative:
Higher

Actual:
66 ft.

BROWNFIELDS:
Program: BCP
Site Code: 402262
Acres: 0.27
HW Code: C203046
SWIS: 0301
Town: New York City
Record Added Date: 08/05/2008
Record Updated Date: 12/12/2012
Update By: RXSCHICK
Site Description: Location This site is located at 1800 Southern Boulevard in the Borough of the Bronx, New York City. This is an urban area. Site Features The site is approximately 0.27 acres in area and is a triangular shaped parcel of land. The 174th Street MTA Station is located above this intersection (elevated tracks). Current Zoning Uses The site is zoned for commercial use. The surrounding area is a mixture of commercial, recreational and residential uses. Historical Uses Prior to remediation, beginning sometime between 1927 and 1940, the site was occupied at various times by a gasoline filling station and an auto repair shop/car wash. The car wash operation closed in 1993 and the service station closed in 2003. BP-Amoco was operating the station at the time of closure in 2003. In July of 2003, BP arranged for the removal of four 4,000-gallon underground storage tanks (USTs), five dispensers and associated piping. An investigation performed by Delta prior to the UST removal, confirmed that groundwater was significantly impacted with constituents of gasoline as well. The results of this investigation resulted in the assignment of NYSDEC Spill Number 02-12264. A remedial investigation performed by Roux Associates in 2008 confirmed that soil, groundwater and soil vapors were contaminated with petroleum-related VOCs in excess of the NYSDEC remedial objectives and groundwater standards. SB 1800 LLC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in May 2009,

1800 SOUTHERN BOULEVARD (Continued) **S109321475**

	to investigate and remediate the site. Site Geology and Hydrogeology The Site contains shallow occurring bedrock (approximately 24 feet bls) that was directly overlain by weathered rock and glacial deposits consisting of a mix of sand, silt, and clay in varying thickness. Groundwater at the Site ranged in depth from approximately 6 to 10 feet bls. It was determined that groundwater flows in a northwesterly direction, perpendicular to the long axis of the site. The project consists of construction of a ten-story low-income housing/mixed use development. The off-site aspect of this project will be monitored/remediated under spill number 0212264. There is a fully executed Brownfield Cleanup Agreement for this site. The Remedial Action Work Plan (RAWP) and the Remedial Investigation Report (RIR) were approved in August 2009. Remedial Construction started in September 2010. The Final Engineering Report (FER) was submitted in December 2011. 12/23/11-the Department signed the Certificate of Completion for this site.
Env Problem:	Nature and Extent of Contamination: Prior to remediation A Remedial Investigation (RI) was completed in July 2008. The investigation found contamination in soil, groundwater, and soil vapor. Contaminants in soil which exceeded Part 375 Unrestricted Soil Cleanup Objectives include the VOCs (ethylbenzene 77 mg/kg and 1,2,4 trimethylbenzene at 310 mg/kg), SVOCs (naphthalene at 25 mg/kg), and metals (mercury at 0.7 mg/kg and lead at 580 mg/kg). Contaminants in groundwater which exceed groundwater standards include VOCs (Benzene at 960 ug/L), SVOCs (naphthalene at 650 ug/L, and metals (manganese at 8,700 ug/L and lead at 340 ug/L). Elevated levels of VOCs were also detected in soil vapor samples (xylenes at 43 ug/m3, as well as numerous other VOC compounds). This site was determined to pose a significant threat to the human health and the environment. The Remedial Investigation Report (RIR) and Remedial Action Work Plan (RAWP) were both approved in August 2009. Remedial Action started in September 2010: Post Remediation No contamination remains at the Site. The Final Engineering Report (FER) was submitted in December 2011.
Health Problem:	The remedy has removed all site-related contamination from the property, thereby eliminating all potential human exposure pathways at the site.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	5/29/2009 3:14:00 PM
Record Upd:	6/25/2009 4:00:00 PM
Updated By:	MOBARRIE
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	SOBRO DEVELOPMENT CORPORATION
Owner Address:	555 BERGEN AVENUE
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10455
Owner Country:	United States of America

1800 SOUTHERN BOULEVARD (Continued) **S109321475**

Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	COLBERT NEMBHARD
Owner Company:	THE NEW YORK PUBLIC LIBRARY
Owner Address:	MORRISON BRANCH LIBRARY
Owner Addr2:	610 EAST 169TH STREET
Owner City,St,Zip:	BRONX, NY 10456
Owner Country:	United States of America
Own Op:	Applicant/Requestor
Sub Type:	10
Owner Name:	Michael Callaghan
Owner Company:	SB 1800 LLC
Owner Address:	100 Park Avenue
Owner Addr2:	Suite 1600
Owner City,St,Zip:	New York, NY 10017
Owner Country:	United States of America
HW Code:	C203046
Waste Type:	BENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	BENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	NICKEL
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	NICKEL
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	TOLUENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046

1800 SOUTHERN BOULEVARD (Continued) **S109321475**

Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	ZINC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	XYLENE (MIXED)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	XYLENE (MIXED)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	SODIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	ARSENIC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	ETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	ETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	MTBE (METHYL-TERT-BUTYL ETHER)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	ETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	BERYLLIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	MANGANESE

1800 SOUTHERN BOULEVARD (Continued) **S109321475**

Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	COPPER
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	COPPER
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	0212264
Cross Ref Type Code:	01
Cross Ref Type:	Spill No.
Record Added Date:	6/25/2009 2:19:00 PM
Record Updated:	6/25/2009 2:19:00 PM
Updated By:	MOBARRIE
Crossref ID:	W2-1133-09-03
Cross Ref Type Code:	23
Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	5/28/2009 10:09:00 AM
Record Updated:	5/28/2009 10:09:00 AM
Updated By:	MOBARRIE

BC277 **SHERIDAN EXRESSWAY -TULLY CONSTRUCTION CO.** **NY SWF/LF** **S106860906**
SW **SHERIDAN EXPRESSWAY EDGEWATER ROAD** **N/A**
1/4-1/2 **BRONX, NY 10459**
0.454 mi.
2398 ft. **Site 2 of 2 in cluster BC**

Relative:
Higher

Actual:
59 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	9172994737
Owner Name:	Tully Contruction
Owner Type:	Private
Owner Address:	127-50 Northern Blvd.
Owner Addr2:	Not reported
Owner City,St,Zip:	Flushing, NY 11368
Owner Email:	Not reported
Owner Phone:	7184467000
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[03W91]
Active:	No
East Coordinate:	593397
North Coordinate:	4519996
Accuracy Code:	Not reported
Regulatory Status:	Registration
Waste Type:	Asphalt
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported

SHERIDAN EXRESSWAY -TULLY CONSTRUCTION CO. (Continued) **S106860906**

Operator Type: Not reported
Laste Date: Not reported

BD278 **URBAN HOME OWNERSHIP** **NY LTANKS** **S118953841**
NW **1700 CROTONA PARK EAST** **N/A**
1/4-1/2 **BRONX, NY**
0.456 mi.
2406 ft. **Site 1 of 2 in cluster BD**

Relative:
Higher

Actual:
97 ft.

LTANKS:

Facility ID:	9711887
Site ID:	109626
Closed Date:	1998-01-23
Spill Number:	9711887
Spill Date:	1998-01-23
Spill Cause:	Tank Overfill
Spill Source:	Commercial Vehicle
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	1998-01-23
CID:	370
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1998-01-23
Spill Record Last Update:	1998-01-26
Spiller Name:	Not reported
Spiller Company:	LB TRANSPORT
Spiller Address:	1064 WASHINGTON AVE
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	(718) 991-0380
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	96180
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MARTINKAT CALL 420 LEFT MESSAGE ASK FOR STATUS AND CALL BACK."
Remarks:	"DRIVER ERROR TANK OVERFILL SPILL TO SIDEWALK AND GROUND ONLY SPILL CONTAINED CLEANUP CREW ENROUTE"

All Materials:

Site ID:	109626
Operable Unit ID:	1058252
Operable Unit:	01
Material ID:	326522
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15.00
Units:	G

URBAN HOME OWNERSHIP (Continued) **S118953841**

Recovered: .00
Oxygenate: Not reported

BD279 **SPILL NUMBER 0209146** **NY LTANKS** **S118953464**
NW **1700 CROTONA PK EAST** **N/A**
1/4-1/2 **BRONX, NY**
0.456 mi.
2406 ft. **Site 2 of 2 in cluster BD**

Relative: LTANKS:
Higher

Actual:
97 ft.

Facility ID:	0209146
Site ID:	311080
Closed Date:	2003-06-30
Spill Number:	0209146
Spill Date:	2002-12-02
Spill Cause:	Tank Overfill
Spill Source:	Commercial Vehicle
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2002-12-05
CID:	205
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2002-12-05
Spill Record Last Update:	2003-06-30
Spiller Name:	CALLER
Spiller Company:	CASTLE OIL CORPORATION
Spiller Address:	290 LOCUST AVENUE
Spiller County:	001
Spiller Contact:	CALLER
Spiller Phone:	(718) 991-0380
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	251085
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was AUSTIN 12/05/2002 CALLED CASTLE OIL AND WAS TOLD THAT THE CLEANUP HAD BEEN COMPLETED. CALLED THE ON SITE OFFICE AND WAS TOLD THAT THE MAINTENANCE MAN HAD DONE MUCH OF THE CLEANUP. ATTEMPTED TO CROSS REFERENCE THE SITE WITH THE PBS DATABASE AND FOUND NO REGISTRATION FOR THIS LOCATION. ATTEMPTED CALLING MR.SELBI(212-563-0310), THE ALLEGED OWNER AND LEFT A MESSAGE. WAS CALLED BACK BY THE SITE OFFICE (1705 BOSTON ROAD) AND WAS INFORMED THAT CLEAVE STEWART WAS HANDLING THE HEATING DETAILS I CALLED THE GIVEN NUMBER(718-892-2218) AND LEFT A MESSAGE FOR PRECISION COMBUSTION INC. 6/30/03 - AUSTIN - AS PER ABOVE, SITE CLEANED - CLOSE SPILL IN DATABASE - TIPPLE ORIGINALLY ASSIGNED TO THIS REPORT - END "
Remarks:	"driver hooked up to wrong tank. cleanup completed."

All Materials:

SPILL NUMBER 0209146 (Continued) **S118953464**

Site ID:	311080
Operable Unit ID:	860535
Operable Unit:	01
Material ID:	516126
Material Code:	0002A
Material Name:	#4 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

AZ280 **1326 MORRISON AVE/CHURCH** **NY LTANKS** **S102671753**
East **1326 MORRISON AVE/CHURCH** **N/A**
1/4-1/2 **BRONX, NY**
0.458 mi.
2418 ft. **Site 2 of 2 in cluster AZ**

Relative: **Higher**
Actual: **20 ft.**

LTANKS:

Facility ID:	9108377
Site ID:	221719
Closed Date:	1991-11-06
Spill Number:	9108377
Spill Date:	1991-11-05
Spill Cause:	Tank Overfill
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Not reported
Cleanup Ceased:	1991-11-06
SWIS:	0301
Investigator:	FINGER
Referred To:	Not reported
Reported to Dept:	1991-11-05
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1991-11-12
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	Petro Fuel
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	183374
DEC Memo:	""
Remarks:	"SPILL IN BASEMENT; NO ALARM. CLEAN-UP CREW ENROUTE. NO CALLBACK."

All Materials:

Site ID:	221719

1326 MORRISON AVE/CHURCH (Continued) **S102671753**

Operable Unit ID:	958672
Operable Unit:	01
Material ID:	420528
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

BB281 **1499 BRUCKNER BLVD/AMOCO** **NY LTANKS** **S100493393**
SSE **1499 BRUCKNER BLVD/AMOCO** **N/A**
1/4-1/2 **BRONX, NY**
0.462 mi.
2437 ft. **Site 2 of 2 in cluster BB**

Relative:
Higher

Actual:
12 ft.

LTANKS:

Facility ID:	9200547
Site ID:	233503
Closed Date:	1992-06-18
Spill Number:	9200547
Spill Date:	1992-04-14
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	C3
Cleanup Ceased:	1992-06-18
SWIS:	0301
Investigator:	SULLIVAN
Referred To:	Not reported
Reported to Dept:	1992-04-14
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1992-04-22
Spill Record Last Update:	1992-06-17
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	192385
DEC Memo:	""
Remarks:	""

All TTF:

Facility ID:	9200547
Spill Number:	9200547

1499 BRUCKNER BLVD/AMOCO (Continued) **S100493393**

Spill Tank Test:	1539867
Site ID:	233503
Tank Number:	Not reported
Tank Size:	0
Material:	0009
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	233503
Operable Unit ID:	967793
Operable Unit:	01
Material ID:	415333
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	.00
Oxygenate:	Not reported

BA282 **ELITE MOTOR CARS INC** **NY SWF/LF** **S108145844**
South **985 BRONX RIVER AVE** **N/A**
1/4-1/2 **BRONX, NY 10472**
0.462 mi.
2440 ft. **Site 2 of 2 in cluster BA**

Relative:
Higher

Actual:
20 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	Not reported
Active:	No

ELITE MOTOR CARS INC (Continued) **S108145844**

East Coordinate:	594213
North Coordinate:	4519653
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

283
SE
1/4-1/2
0.476 mi.
2514 ft.

HOME **NY LTANKS** **S119030012**
1057 WARD AVE **N/A**
BRONX, NY

Relative:
Higher

Actual:
34 ft.

LTANKS:

Facility ID:	1609935
Site ID:	538749
Closed Date:	2017-02-21
Spill Number:	1609935
Spill Date:	2017-01-30
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	D4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2017-01-30
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2017-01-30
Spill Record Last Update:	2017-02-21
Spiller Name:	Not reported
Spiller Company:	1057 WARD AVE
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	N/A
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	492546
DEC Memo:	"01/30/17-Hiralkumar Patel. alternate address: none no PBS or other spills found. 1:04 PM:- spoke with Victoria at Protest. she mentioned that Protest conducted a tightness test for a potential buyer (Lourdes Sotamba, 631-507-6745) and found a dry leak in the system. Mary White **property owner** c/o David James Executor of Estate 8824 Vanderveer Street Queens Village, NY 11427-2410 PH. (718) 991-8490 (718) 740-1472 (646) 872-1418 (C) email: djames14@nyc.rr.com 1:10

HOME (Continued) **S119030012**

PM:- left message for Ms. White. 3:20 PM:- received call from David James, executor of Ms. White's estate. he mentioned that Ms. White passed away and he is trying to sell the property. informed Mr. James about further testing/repair/cleanup requirements. 3:43 PM:- sent TTF letter to Mr. James requiring report submission by 03/10/17. letter emailed to Mr. James. case assigned to DEC Piper. 2/21/17- DEC Piper received documentation of repairs. and passing tightness test. Based on work to date, this spill is closed. See Dec Docs if warranted."

Remarks: "550 gal ust"

All Materials:

Site ID:	538749
Operable Unit ID:	1287329
Operable Unit:	01
Material ID:	2293034
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	Not reported
Oxygenate:	Not reported

284
NNE
1/4-1/2
0.480 mi.
2534 ft.

1899-1905 WEST FARMS ROAD **NY INST CONTROL** **S116041501**
1899-1905 WEST FARMS ROAD **NY BROWNFIELDS** **N/A**
BRONX, NY 10460

Relative:
Higher

Actual:
29 ft.

INST CONTROL:

Site Code:	488955
Control Name:	Site Management Plan
HW Code:	C203070
Control Code:	32
Control Type:	INST
Dt record added:	07/11/2016
Dt rec updated:	12/28/2016
Updated By:	TLRIDNER
Site Code:	488955

Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.

Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

Site Code: 488955
Control Name: Monitoring Plan
HW Code: C203070
Control Code: 31
Control Type: INST
Dt record added: 07/11/2016
Dt rec updated: 12/28/2016
Updated By: TLRIDNER
Site Code: 488955
Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.

Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Site Code: 488955
Control Name: IC/EC Plan
HW Code: C203070
Control Code: 34
Control Type: INST
Dt record added: 07/11/2016
Dt rec updated: 12/28/2016
Updated By: TLRIDNER
Site Code: 488955
Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.
Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.
Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.
Dump: False
Structure: False
Lagoon: False
Landfill: False

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

Site Code: 488955
Control Name: Ground Water Use Restriction
HW Code: C203070
Control Code: 08
Control Type: INST
Dt record added: 07/11/2016
Dt rec updated: 12/28/2016
Updated By: TLRIDNER
Site Code: 488955
Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.
Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.

Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.
Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

Site Code: 488955
Control Name: Landuse Restriction
HW Code: C203070
Control Code: 25
Control Type: INST
Dt record added: 07/11/2016
Dt rec updated: 12/28/2016
Updated By: TLRIDNER
Site Code: 488955
Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.

Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

Site Code: 488955
Control Name: Environmental Easement
HW Code: C203070
Control Code: J
Control Type: INST
Dt record added: 07/11/2016
Dt rec updated: 12/28/2016
Updated By: TLRIDNER
Site Code: 488955
Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.

Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

BROWNFIELDS:
Program: BCP
Site Code: 488955
Acres: 0.637
HW Code: C203070

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

SWIS:	0301
Town:	New York City
Record Added Date:	11/13/2013
Record Updated Date:	01/03/2018
Update By:	MJKOMORO
Site Description:	Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.
Env Problem:	Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.
Health Problem:	Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Dell:	Not reported
Record Add:	11/13/2013 10:34:00 AM
Record Upd:	10/26/2016 9:20:00 AM
Updated By:	MJKOMORO
Own Op:	Owner
Sub Type:	E
Owner Name:	Robert Frost
Owner Company:	1903 West Farms, LLC
Owner Address:	220 Fifth Avenue, 19th Floor
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10001-7708
Owner Country:	United States of America
Own Op:	Applicant/Requestor
Sub Type:	P03
Owner Name:	Robert Frost
Owner Company:	1903 West Farms, LLC
Owner Address:	220 Fifth Ave, 19th Floor
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10001
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Omisha Covington
Owner Company:	New York Public Library - West Farms Branch
Owner Address:	2085 Honeywell Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 10460
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	E
Owner Name:	Tom Ciano
Owner Company:	Monadnock Construction Inc.
Owner Address:	155 3rd Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11231
Owner Country:	United States of America
Own Op:	Applicant/Requestor
Sub Type:	P03
Owner Name:	Nicholas Lembo
Owner Company:	Compass V LLC
Owner Address:	155 3rd Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11231
Owner Country:	United States of America
HW Code:	C203070
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	1,2,4-TRIMETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	N-PROPYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	XYLENE (MIXED)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	cis-1,2-Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	ETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	2016060800191001
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	7/11/2016 9:00:00 AM
Record Updated:	7/11/2016 9:00:00 AM
Updated By:	MJKOMORO
Crossref ID:	2-612624
Cross Ref Type Code:	18
Cross Ref Type:	PBS No.
Record Added Date:	11/7/2016 12:31:00 PM
Record Updated:	11/7/2016 12:31:00 PM
Updated By:	JAAVERSA
Crossref ID:	C203070-02-14
Cross Ref Type Code:	23
Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	10/20/2016 8:48:00 AM
Record Updated:	10/20/2016 9:29:00 AM
Updated By:	RECURLEY
Crossref ID:	2016000203290
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	7/11/2016 9:00:00 AM

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Record Updated:	9/7/2016 11:47:00 AM
Updated By:	MJKOMORO
Crossref ID:	2-12-1014
Cross Ref Type Code:	26
Cross Ref Type:	Agreement/Consent Order Date
Record Added Date:	10/20/2016 8:48:00 AM
Record Updated:	10/20/2016 9:29:00 AM
Updated By:	RECURLEY

BE285 **GETTY** **NY LTANKS** **S104620177**
South **1340 BRUCKNER BLVD** **NY Spills** **N/A**
1/4-1/2 **BRONX, NY**
0.486 mi.
2568 ft. **Site 1 of 2 in cluster BE**

Relative:
Higher

Actual:
39 ft.

LTANKS:

Facility ID:	9900624
Site ID:	246545
Closed Date:	1999-08-13
Spill Number:	9900624
Spill Date:	1999-03-26
Spill Cause:	Tank Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	1999-04-16
CID:	312
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1999-04-16
Spill Record Last Update:	1999-08-13
Spiller Name:	Not reported
Spiller Company:	GETTY
Spiller Address:	Not reported
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	202458
DEC Memo:	""
Remarks:	"contamination detected by gci performing subsurface investigation"

All Materials:

Site ID:	246545
Operable Unit ID:	1075384
Operable Unit:	01
Material ID:	307751
Material Code:	0009
Material Name:	gasoline

GETTY (Continued) **S104620177**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported
Facility ID:	9901242
Site ID:	246546
Closed Date:	1999-06-04
Spill Number:	9901242
Spill Date:	1999-05-03
Spill Cause:	Tank Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	JMROMMEL
Referred To:	Not reported
Reported to Dept:	1999-05-03
CID:	205
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1999-05-03
Spill Record Last Update:	2000-01-24
Spiller Name:	Not reported
Spiller Company:	OLD GETTY STATION
Spiller Address:	1340 BRUCKNER BLVD
Spiller County:	001
Spiller Contact:	CALLER
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	202458
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL Closed and cross referenced to 9901256 JMR"
Remarks:	"caller pulled tank from abandoned gas station. contamination found."

All Materials:

Site ID:	246546
Operable Unit ID:	1079952
Operable Unit:	01
Material ID:	304788
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

GETTY (Continued) **S104620177**

Facility ID:	9207805
Site ID:	321907
Closed Date:	1992-11-02
Spill Number:	9207805
Spill Date:	1992-10-06
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	B3
Cleanup Ceased:	1992-11-02
SWIS:	0301
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	1992-10-06
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1992-10-07
Spill Record Last Update:	2002-02-22
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	259319
DEC Memo:	""
Remarks:	"EIR-ASAP"

All TTF:

Facility ID:	9207805
Spill Number:	9207805
Spill Tank Test:	1540671
Site ID:	321907
Tank Number:	Not reported
Tank Size:	0
Material:	0009
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	321907
Operable Unit ID:	974601

GETTY (Continued) **S104620177**

Operable Unit:	01
Material ID:	567439
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Facility ID:	0202858
Facility Type:	ER
Spill Number:	0202858
DER Facility ID:	202458
Site ID:	235837
DEC Region:	2
Closed Date:	2004-01-13
Spill Cause:	Unknown
Spill Class:	C3
SWIS:	0301
Spill Date:	2002-06-11
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	2002-06-18
CID:	281
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-06-18
Spill Record Last Update:	2005-07-21
Spiller Name:	Not reported
Spiller Company:	AMOCO
Spiller Address:	1360 BRUCKNER BLVD
Spiller Company:	001
Contact Name:	BRAD FISHER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was K FOLEY 8/31/02 Received Subsurface Hydrocarbon Assessment Report (Delta, 8/29/02). 12/9/03 Reassigned from Vought to Foley. Adjacent Getty station approx 45' west of site (upgradient) across Whittier Ave. See spill #9901256.(Not currently impacting BPAmoco site) Reviewed SHAR. Land use is commercial. Railroads on both east and west sides. Bronx River is nearest downgradient surface water body approx 170' east of site, approx 50' below site elevation. There are two schools within one-quarter mile radius of the site. PS 75 is located 530' west of the site. Soil analyticals indicate xylenes(6150ppb > TAGM 1200ppb) and 1,2,4-tri-methylbenzene(14500ppb > TAGM 10000ppb) in SB-4 (11-12') above soil cleanup guidance values. No MTBE. Only BTEX compounds detected were in the 11-12' interval of

GETTY (Continued) **S104620177**

SB-4. Total VOCs in SB-4(14-15') was 182ppb. Groundwater was not encountered. It is suspected that groundwater is located at a depth approx 40'bgs and flows southeasterly towards the Bronx River. During advancement of soil borings, refusal on bedrock was encountered between 10.5' and 25' bgs. Refusal at 15' in SB-4. (KMF) 2/17/04 Investigation Report(IE, 1/3/03) and Remediation Report (IE, 1/26/04) received. 2/18/04 NFA faxed and mailed to Mr. Henry Alpert, David Oil Corp. Copied R. Parrish, Impact Environmental."

Remarks: "GEOPROBE SOIL SAMPLES REVEAL IMPACT. FURTHER ASSESSMENT TO BE PERFORMED."

All Materials:

Site ID:	235837
Operable Unit ID:	853703
Operable Unit:	01
Material ID:	520694
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	9901256
Facility Type:	ER
Spill Number:	9901256
DER Facility ID:	202458
Site ID:	246547
DEC Region:	2
Closed Date:	2007-07-13
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	1999-05-03
Investigator:	rjfeng
Referred To:	REFER TO 02-02858
Reported to Dept:	1999-05-03
CID:	312
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	1999-05-03
Spill Record Last Update:	2007-07-16
Spiller Name:	Not reported
Spiller Company:	GETTY GAS
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	CALLER
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was

GETTY (Continued) **S104620177**

VOUGHT 3/13/03 REASSIGNED FROM ROMMEL TO VOUGHT. 12/9/03 Adjacent Amoco station. Approx 45' across Whittier Ave. See spill #0202858. (KMF) 5/10/2007 - Feng - Spoke to D. Madigan (Tyree). Investigation was performed. Soil and groundwater samples were collected and shows ok. SIR will be submitted to DEC this month. (RJF) 7/13/2007 - Feng - Subsurface Investigation Report, 5/16/2007, submitted by Tyree. Tyree installed 5 soil borings on 2/28/2007 to 3/12/2007. Three borings located in the former tank farm area, one boring located in the former waste oil tank area and one boring located in the former heating oil area. Groundwater was encountered at 30 feet during this investigation. Groundwater is anticipated to flow in a southeastern direction. Soil and groundwater samples were collected. Soil collcted from BP-2/W-2 at depth of 10' to 12' bg located in the former tank farm area show some slight exceedance, 3,190 ppb Xylene. There are some minor exceedances in some SVOCs compounds. For groundwater, 5.2 ppb Toluene in W-5. Tyree requested spill closure. Discussed with J. Sun and V. Brevdo, spill closed. 1) All the USTs, pump islands and piping were removed during the 1999 tank removal process. 2) Only slight exceedance in soil and groundwater detected during the subsurface investigation. Spill closed. (RJF) 7/16/2007 - Feng - NFA issued to Getty Properties. (RJF)"

Remarks: "SOIL CONTAMINATION "

All Materials:

Site ID:	246547
Operable Unit ID:	1076029
Operable Unit:	01
Material ID:	304801
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

286
SW
1/4-1/2
0.488 mi.
2574 ft.

FABCO **NY LTANKS** **S105995061**
1052 SOUTHERN BLVD **N/A**
BRONX, NY

Relative: Higher

Actual: 59 ft.

LTANKS:

Facility ID:	0110464
Site ID:	207160
Closed Date:	2003-07-07
Spill Number:	0110464
Spill Date:	2002-01-30
Spill Cause:	Tank Overfill
Spill Source:	Commercial Vehicle
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2002-01-31

FABCO (Continued) **S105995061**

CID:	322
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2002-01-31
Spill Record Last Update:	2003-07-07
Spiller Name:	Not reported
Spiller Company:	ENTERPRISE COMPANYFABCO
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	(718) 991-9212
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	171938
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND 1/31/02 MR. SINGS FROM FABCO STATED THAT THE SPILL CONSISTED OF A FEW GALLONS OF FUEL OIL ON THE SIDEWALK, DIRT WAS SPREAD ON THE OIL DURING A RAINSTORM CREATING A MUDDY OILY WATER MIX. MR.SINGS ALSO INDICATED THE SPILL CAME FROM THE VENT LINE ON BANCO POPULAR, AND THE TRUCK THAT MADE THE DELIVERY SAID ENTERPRISE TRANSPORTATION ON IT. TIPPLE THEN CALLED BANCO POPULAR (718-589-6668) AND WAS INFORMED THAT THE BANK HAD RETAINED WEXLER BOILER COMPANY TO CLEAN THE SPILL. A REPRESENTATIVE FROM THE 1046 SOUTHERN BLVD. BRANCH OF BANCO POPULAR ASSURED TIPPLE AT 5PM THAT SHE HAD INSPECTED THE SPILL SITE AND THE CLEANUP WAS COMPLETE. "
Remarks:	"citizen noticed oil company overfill tank - spill to ground and they put dirt down to cover spill area - spill is being washed away today due to rain "

All Materials:

Site ID:	207160
Operable Unit ID:	847557
Operable Unit:	01
Material ID:	528087
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

BE287 **ALAMAR CARTING CORP.** **NY SWF/LF** **S105841810**
South **1351 GARRISON AVENUE** **N/A**
1/4-1/2 **?, NY 11433**
0.491 mi.
2595 ft. **Site 2 of 2 in cluster BE**

Relative:
Higher

Actual:
27 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	2125421330
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	DIANA PRIMUTO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[03T53]
Active:	No
East Coordinate:	594000
North Coordinate:	4519600
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Not reported
Authorization #:	2-6007-00112
Authorization Date:	07/11/1991
Expiration Date:	07/10/1996
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

Flag:	INACTIVE
Region Code:	2
Phone Number:	2125421330
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	DIANA PRIMUTO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[03W53]
Active:	No
East Coordinate:	594000
North Coordinate:	4519600

ALAMAR CARTING CORP. (Continued) **S105841810**

Accuracy Code: Not reported
Regulatory Status: Permit
Waste Type: Not reported
Authorization #: 2-6007-00112
Authorization Date: 07/11/1991
Expiration Date: 07/10/1996
Operator Name: Not reported
Operator Type: Not reported
Laste Date: Not reported

288
North
1/4-1/2
0.492 mi.
2598 ft.

1825 BOSTON ROAD
1825 BOSTON ROAD
NEW YORK CITY, NY

NY VCP **S118943326**
N/A

Relative:
Higher

Actual:
62 ft.

VCP NYC:
Project ID: 14CVCP187X
Project Name: 1825 BOSTON ROAD
Project Address: 1825 BOSTON ROAD
Borough: BRONX

VCP NYC:
Project ID: 14CVCP187X
File Name: 2013-11-14.RIR
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/14CVCP187X/2013-11-14.14CVCP187X.1825_Boston_Road.RIR.pdf

Project ID: 14CVCP187X
File Name: 2013-11-14.RAWP_Final
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/14CVCP187X/2013-11-14.14CVCP187X.1825_Boston_Road.RAWP_Draft.pdf

Project ID: 14CVCP187X
File Name: 2013-11-14.FactSheet-1
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/14CVCP187X/2013-11-14.14CVCP187X.1825_Boston_Road.FactSheet-1.pdf

Project ID: 14CVCP187X
File Name: 2013-11-15.Translated_FactSheet-1
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/14CVCP187X/2013-11-15.14CVCP187X.1825_Boston_Road.Translated_FactSheet-1.pdf

Project ID: 14CVCP187X
File Name: 2013-11-15.Translated_CPS
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/14CVCP187X/2013-11-15.14CVCP187X.1825_Boston_Road.Translated_Community_Protection_Statement.pdf

Project ID: 14CVCP187X
File Name: 2013-12-03.Stipulation_List
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/14CVCP187X/2013-12-03.14CVCP187X.1825_Boston_Road.Stip_List_Final.pdf

Project ID: 14CVCP187X
File Name: 2014-07-11.FactSheet-2
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/14CV

1825 BOSTON ROAD (Continued) **S118943326**

CP187X/2014-07-11.14CVCP187X.1825-Boston_Road.FactSheet-2.pdf

Project ID: 14CVCP187X
File Name: 2014-07-11.Translated_FactSheet-2
URL: http://www.nyc.gov/html/oer/downloads/pdf/repository/NYCBCP_Bronx/14CVCP187X/2014-07-10.14CVCP187X.1825_Boston_Road.Translated_FactSheet-2.pdf

Project ID: 14CVCP187X
File Name: Documents Available on Environmental Project Information Center (EPIC)
URL: https://a002-epic.nyc.gov/app/workspace/2500/docrepository

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289 East 1/4-1/2 0.492 mi. 2598 ft. **SPILL NUMBER 0301007** **NY LTANKS** **U000398780**
1240 MORRISON AVENUE **N/A**
BRONX, NY

Relative: Higher
Actual: 19 ft.

LTANKS:

Facility ID:	0301007
Site ID:	73564
Closed Date:	2003-09-16
Spill Number:	0301007
Spill Date:	2003-04-29
Spill Cause:	Tank Test Failure
Spill Source:	Private Dwelling
Spill Class:	D4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2003-04-29
CID:	418
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2003-04-29
Spill Record Last Update:	2003-11-06
Spiller Name:	HAROLD
Spiller Company:	RIVERSIDE MANAGEMENT
Spiller Address:	1240 MORRISON AVENUE
Spiller County:	001
Spiller Contact:	RENE LEWIS
Spiller Phone:	(718) 378-7000
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	69229
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 5/6/03 - ROSSAN, DDO - Tank test Failure letter prepared and sent to Mr. Michael Mansueto BSR Management Corp 495 Broadway, 6th FL New York, NY 10012 END 9/10/2003-Vought-Underground Storage Tank Investigation Report-7/23/03-Specialty Service Contracting (John Skinner-201-941-8292). Tank is a 15000-gallon heating oil UST. Tank

SPILL NUMBER 0301007 (Continued) **U000398780**

	was isolated from piping and individual components were tested. Tank was excavated and loose connections included dipstick, petrometer, supply and return lines. Impacted soil was removed. 22.78 tons of impacted soil was removed from the site. Six endpoint soil samples were collected for analysis and showed concentrations of PAH's exceeding TAGM (benzo(a)anthracene, chrysene, benzo(b,k)fluornathene and benzo(a)pyrene). Looose connections were replaced and tank system was retested. Tank passed tank system test. Disposal manifest, analyticals and site plan provided to NYSDEC. PAH exceedances due to ubiquitous fill material. Spill closed by Vought. NFA sent 9/17/03."
Remarks:	"dry leak failure for an underground service tank in an apartment complex"

All Materials:

Site ID:	73564
Operable Unit ID:	867484
Operable Unit:	01
Material ID:	509070
Material Code:	0003A
Material Name:	#6 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported

Facility ID:	0702940
Site ID:	382768
Closed Date:	2015-11-17
Spill Number:	0702940
Spill Date:	2007-06-11
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	D4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	HRPATEL
Referred To:	Not reported
Reported to Dept:	2007-06-11
CID:	408
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2007-06-11
Spill Record Last Update:	2015-11-17
Spiller Name:	BSR MANAGMENT
Spiller Company:	APARTMENT
Spiller Address:	1240 MORRISON AVE
Spiller County:	001
Spiller Contact:	BSR MANAGMENT
Spiller Phone:	(212) 941-9500
Spiller Extention:	Not reported

SPILL NUMBER 0301007 (Continued) **U000398780**

DEC Region: 2
DER Facility ID: 332215
DEC Memo: "6/11/07 Called BSR Management (contact on FIR) and they no longer service this building. New manager is Stellar Management (212)843-3767. Called Stellar and left message. bf 6/12/07 Received message from Stacy of Stellar Management (212)624-6703. Returning my call. Received call from Stewart Schwartz of S&S Energy. cell: (631)926-2196 office: (631)691-1700. S&S is the contractor for the tank test and repairs. bf 6/13/07 Received message from S. Schwartz. i was out of office. bf 6/14/07 Called S. Schwartz. They plan on excavating and isolating parts of system. If failure again they will install temporary tank and then sample. If necessary, they will close tank. He will send me a letter describing their plan. He requested a copy of spill report for 0301007. A closed ttf at the same site. I faxed it to him. Fax:(631)691-1711. Sent ttf letter to Stellar's engineer: Smajlje Srdanovic Stellar Management 156 William Street New York, NY 10038 Also faxed ttf letter to S. Schwartz. bf 6/19/07 Received phone call from Mr. Srdanovic. He plans on closing tank and installing new tank. Will sample if tank to be closed in place and or will remove tank and sample if contamination is found. bf 7/10/07 Received message from Stacy Rigieri of Star Management. Ph. (212)624-6703. She has a letter from Cardinal tank explaining what work will be done and she wants to fax it to me. bf 7/11/07 Called S. Rigieri and left message with fax number. bf 7/24/07 On 6/16/07, received letter from S. Ruggieri of Stellar. Cardinal Tank and Boiler was hired to remedy the situation. Proposal was attached to letter. Tank was a wet leak and will be emptied immediately. Will install temporary tank. bf 8/17/12 Spill re-assigned to T. Demeo as per RSE. bf 2/12/15 TJD Spill reassigned from DeMeo to Patel 02/19/15-Hiralkumar Patel. alternate address: 1222-1242 Morrison Ave PBS #: 2-091782. as per PBS record, the site has one (1) 15,000 gal #2 oil AST in subterranean vault, in-service, installed in Dec. 1968. other spill #: 9313718, 0301007 spill # 9313718 was reported on 02/22/1994 due to findings of raw sewage in back yard. case closed. spill # 0301007 was reported on 04/29/2003 due to dry leak in UST. during isolation test, loose pipe connections were found on tank top. 22.78 tons of contaminated soil was removed. after repair, tank system passed the test. case closed. as per a cost estimate from Cardinal Boiler dated 07/09/2007, wet leak was found in 15,000 gal UST. Cardinal Boiler proposed to install a new tank. as per NYC DOB record, a permit was approved on 03/04/2008 for installation of a new 11,500 gal rectangular fuel oil tank. also, a permit was approved on 02/04/2014 for conversion of fuel grade from #6 to #2 fuel oil. based on available information, the site had one 15,000 gal UST which was either closed or removed and a new 11,500 gal AST was installed sometime in 2008. but PBS record shows only one 15,000 gal AST. 03/20/15-Hiralkumar Patel. 9:30 AM:- visited site. met Miguel Mendez, building super. site has 11,500 gal #2 oil square AST on beams, located in secondary room in basement, which was installed in 2008. the 15,000 gal tank is located underground, in backyard, just behind the boiler room wall. Mr. Mendez mentinoed that the UST was cleaned, but never closed. fill ports for the UST and AST are located by the curb along Harrod Ave. fill port for the UST has been sealed. noted three sealed pipes on boiler room wall: two of which were supply lines from UST for two boilers and one was the return line. no signs of oil seepage noted from the area of these closed pipes. PBS record is incorrect. as per the PBS record, the site has one (1) 15,000 gal

SPILL NUMBER 0301007 (Continued) **U000398780**

AST in vault, in-service. but the site has two tanks: one (1) 11,500 gal AST in-service and one (1) 15,000 gal UST out-of-service. PBS record does not include any information about temporary closure of the UST or installation of new AST. ---------- Miguel Mendez **building super** Ph. (917) 662-0483 03/23/15-Hiralkumar Patel. 10:50 AM:- spoke with Katina Vazquez at Stellar Management. she works with Mr. Jimenez, property manager. informed Ms. Vazquez regarding open spill case, incorrect PBS record and unregistered tank system. informed her that the department requires investigation/cleanup of any petroleum release from the UST system (including remote fill line) and PBS correction. Stellar Morrison LLC. **property owner** c/o Stellar Management 156 William Street, 10th floor New York, NY 10038 Attn.: Eduardo Jimenez **property manager** Ph. (212) 406-0030 Ext. 12 (347) 672-3064 email: ejimenez@stellarmanagement.com Katina Vazquez Stellar Management PH. (212) 843-3783 email: kvazquez@stellarmanagement.com 12:55 PM:- sent letter to Mr. Jimenez requiring submission of report (including investigation of tank system failure and cleanup of any associated contamination) and PBS application (reflecting correct information and status). asked Mr. Jimenez to submit PBS application immediately and spill investigation/cleanup report by the end of 05/29/15. informed Mr. Jimenez that the case will be referred for enforcement, if required documents are not received by 05/29/15. 04/27/15-Hiralkumar Patel. received message for Greg Collins (at 12:45 PM on 04/24/15). Greg Collins GC Environmental PH. (631) 206-3700 Ext. 111 email: gc@gcenvironmental.com 10:30 AM:- spoke with Greg. GC Env. has been retained to conduct required investigation. informed Greg that as per cost estimate in 2007, the tank system had failed in wet portion. based on available information, the department requires subsurface investigation underneath the tank and and along the remote fill line. Greg will submit a work plan. 11:49 AM:- received email from Greg including work plan. he proposed to clean the tank, collect soil samples from below the tank and test the remote fill line. 12:42 PM:- sent email to Greg approving the proposed work plan. informed him that prior to tank abandonment, the department may require additional investigation/remediation. email copied to Mr. Jimenez and Ms. Vazquez. 05/28/15-Hiralkumar Patel. 12:23 PM:- received call from Greg. today, they cut hole in tank bottom for subsurface sampling and groundwater started coming in. due to groundwater right underneath the tank, Greg proposed to collect soil samples via geoprobe (3 borings: one at each end and one on side away from the building wall) around the tank. he will also test the remote fill line. 07/21/15-Hiralkumar Patel. 8:51 PM:- received email from Greg including investigation report. abstract: - during tank abandonment activity (after cutting the second hole on the tank), observed an unknown amount of water entering into the tank - on 06/22/15, six soil borings (SB-1 through SB-6) were advanced around the UST, to a depth of approx. 12 ft bg - groundwater was encountered at a depth of 4 ft bg around the tank location - during the sampling, visual or olfactory signs of contamination were found in SB-3 and SB-4 at 8-12 ft interval - no visual or olfactory contamination found in borings SB-1, SB-2, SB-5 and SB-6 - found light to dark brown coarse sand with rocks in all borings - soil samples were collected from each boring from a depth of 8 to 12 ft bg; except SB-1 where sample was collected from 4 to 8 ft bg - found some SVOC contamination (max: 2,900 ppb Fluoranthene) in endpoint samples, but no VOC contamination 07/24/15-Hiralkumar Patel. 3:16 PM:- sent email

SPILL NUMBER 0301007 (Continued) **U000398780**

to Greg and asked him about fill line investigation result and update of PBS registration. email copied to Mr. Jimenez and Ms. Vazquez. 3:54 PM:- received email from Greg inquiring about comments on investigation report. he mentioned that upon approval, they will dig up the tank end of the fill line and will test it. 07/31/15-Hiralkumar Patel. 1:49 PM:- left message for (and sent email at 1:52 PM to) Greg and informed him that based on available information, the department approves permanent closure of the underground tank. also informed him that a subsurface investigation may be required along the remote fill line for the underground tank, if the fill line fails a tightness test. also asked him to update the PBS record. 09/21/15-Hiralkumar Patel. 1:55 PM:- received call from Greg. he tested the remote fill line which failed. based on available information, asked Greg to conduct either further investigation and remediation (if needed) along the remote fill line or remove the line along with any associated contamination. he will call back with plan. 10/30/15-Hiralkumar Patel. 11:53 AM:- left message for Greg. 12:52 PM:- received call from Greg. they removed the remote fill line and found contamination under the sidewalk. they removed the contaminated material and collected endpoint samples yesterday. will submit report once sample results are available. 11/06/15-Hiralkumar Patel. 9:11 AM:- received message from Greg Collins from GC Env. 11:23 AM:- spoke with Greg. he mentioned that they removed contamination from under the sidewalk from the area of 3 ft by 3 ft to a depth of 4 ft bg. one endpoint sample and one waste characterization sample were collected for analysis. Greg mentioned that surprisingly no contamination noted in the waster characterization sample which was collected from dark soil removed from excavation and some SVOC contamination noted in endpoint sample. he believes samples were switched in lab. received email from Greg including lab report and pics of impacted soil and endpoint soil sample. reviewed samples results. found some SVOC contamination (max. 9,200 ppb Phenanthrene) in endpoint sample. Greg will send site update with more pics. the excavation has been backfilled and cemented. 11/17/15-Hiralkumar Patel. received email from Greg (at 3:20 PM on 11/14/15) including closure report. case closed based on available information. 11:18 AM:- sent email to Greg and reminded him to submit updated PBS application. 11:55 AM:- sent spill closure letter to Mr. Jimenez. letter emailed to Mr. Jimenez and Greg. informed Mr. Jimenez that the PBS record must be corrected with updated information about both tank systems at the site."

Remarks: "PBS No: 2-091782 NONE;"

All TTF:

Facility ID:	0702940
Spill Number:	0702940
Spill Tank Test:	1550905
Site ID:	382768
Tank Number:	1
Tank Size:	15000
Material:	0003
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	.00
Gross Fail:	Not reported

SPILL NUMBER 0301007 (Continued) **U000398780**

Modified By: Watchdog
Last Modified Date: Not reported

All Materials:
Site ID: 382768
Operable Unit ID: 1140151
Operable Unit: 01
Material ID: 2130199
Material Code: 0003A
Material Name: #6 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

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290 South 1/4-1/2 0.496 mi. 2619 ft. **IESI NY CORP - CANAL PLACE RECYCLING FACILITY** **NY SWRCY** **S109375830**
246 - 266 CANAL PLACE **N/A**
BRONX, NY 10451

Relative: Higher

Actual: 20 ft.

SWRCY:
Region: 2
Facility Address 2: Not reported
Phone Number: 2014433000
Owner Type: Private
Owner Name: IESI NY Corporation
Owner Address: 99 Wood Avenue Southe; Suite 1001
Owner Address 2: Not reported
Owner City,St,Zip: Iselin, NJ 08830
Owner Email: Not reported
Owner Phone: 2014433000
Contact Name: Don Kerik
Contact Address: Not reported
Contact Address 2: Not reported
Contact City,St,Zip: Not reported
Contact Email: dkerik@iesi.com
Contact Phone: 7183882183
Activity Desc: RHRF - registration
Activity Number: [03M28]
Active: Yes
East Coordinate: 594251
North Coordinate: 4519615
Accuracy Code: 4.3 - Utilization of Digital Orthophoto Quads
Regulatory Status: Not reported
Permit #: 2-6004-00035
Auth. Date: Not reported
Expiration Date: Not reported
Waste Types: Paper / Cardboard
Operator Name: Not reported
Operator Type: Not reported
Last Date: Not reported

291
SSW
1/2-1
0.912 mi.
4813 ft.

AMERICAN BANK NOTE CO BRONX PLT
TIFFANY ST & GARRISON AVE
NEW YORK, NY 10474

CORRACTS **1000358712**
RCRA-TSDF **NYD091214718**
RCRA NonGen / NLR
RAATS
NY MANIFEST

Relative:
Higher

Actual:
47 ft.

CORRACTS:

EPA ID:	NYD091214718
EPA Region:	2
Area Name:	SITEWIDE
Actual Date:	20130306
Action:	CA800YE
NAICS Code(s):	Not reported
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	NYD091214718
EPA Region:	2
Area Name:	SITEWIDE
Actual Date:	20130306
Action:	CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s):	Not reported
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	NYD091214718
EPA Region:	2
Area Name:	SITEWIDE
Actual Date:	20120426
Action:	CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary
NAICS Code(s):	Not reported
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	NYD091214718
EPA Region:	2
Area Name:	SITEWIDE
Actual Date:	20120426
Action:	CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s):	Not reported
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	NYD091214718
EPA Region:	2
Area Name:	SITEWIDE
Actual Date:	20120426
Action:	CA550NR
NAICS Code(s):	Not reported
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	NYD091214718
EPA Region:	2
Area Name:	SITEWIDE
Actual Date:	20120426
Action:	CA999NF - Corrective Action Process Terminated, No Further Action
NAICS Code(s):	Not reported

AMERICAN BANK NOTE CO BRONX PLT (Continued) **1000358712**

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD091214718
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 19940906
Action: CA050 - RFA Completed
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD091214718
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 19940525
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: 19940701
Schedule end date: Not reported

EPA ID: NYD091214718
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 19931130
Action: CA010 - RFA Initiation
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 01/01/2007
Facility name: AMERICAN BANK NOTE CO BRONX PLT
Facility address: TIFFANY ST & GARRISON AVE
NEW YORK, NY 10474
EPA ID: NYD091214718
Contact: Not reported
Contact address: TIFFANY ST & GARRISON AVE
BRONX, NY 10474
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: AMERICAN BANK NOTE COMPANY
Owner/operator address: TIFFANY ST & GARRISON AVE
OPERCITY, NY 99999
Owner/operator country: US

AMERICAN BANK NOTE CO BRONX PLT (Continued) **1000358712**

Owner/operator telephone: 212-542-9200
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: AMERICAN BANK NOTE CO
Owner/operator address: 70 BROAD ST
NEW YORK, NY 10004
Owner/operator country: US
Owner/operator telephone: 212-542-9200
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: AMERICAN BANK NOTE CO BRONX PLT
Classification: Not a generator, verified

Date form received by agency: 08/20/1996
Site name: AMERICAN BANK NOTE CO BRONX PLT
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Date form received by agency: 07/09/1981
Site name: AMERICAN BANK NOTE CO BRONX PLT
Classification: Not a generator, verified

. Waste code: P106

AMERICAN BANK NOTE CO BRONX PLT (Continued) **1000358712**

. Waste name: SODIUM CYANIDE

Date form received by agency: 11/13/1980
Site name: AMERICAN BANK NOTE CO BRONX PLT
Classification: Large Quantity Generator

. Waste code: K086
. Waste name: SOLVENT WASHES AND SLUDGES, CAUSTIC WASHES AND SLUDGES, OR WATER WASHES AND SLUDGES FROM CLEANING TUBS AND EQUIPMENT USED IN THE FORMULATION OF INK FROM PIGMENTS, DRIERS, SOAPS, AND STABILIZERS CONTAINING CHROMIUM AND LEAD.

. Waste code: P106
. Waste name: SODIUM CYANIDE

Corrective Action Summary:
Event date: 11/30/1993
Event: RFA INITIATION

Event date: 05/25/1994
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 09/06/1994
Event: RFA COMPLETED

Event date: 04/26/2012
Event: REMEDY CONSTRUCTION-NO REMEDY CONSTRUCTED

Event date: 04/26/2012
Event: CA PROCESS IS TERMINATED-NO FURTHER ACTION

Event date: 04/26/2012
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT NECESSARY

Event date: 04/26/2012
Event: REMEDY DECISION

Event date: 03/06/2013
Event: READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE

Event date: 03/06/2013
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 09/08/1987
Date achieved compliance: 11/20/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/08/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

AMERICAN BANK NOTE CO BRONX PLT (Continued) **1000358712**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/16/1985
Date achieved compliance: 09/26/1985
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/16/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/07/1984
Date achieved compliance: 09/26/1985
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/02/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/31/1983
Date achieved compliance: 12/13/1983
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 11/03/1983
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 2000
Paid penalty amount: 2000

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/31/1983
Date achieved compliance: 12/13/1983
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/12/1983
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 15000

AMERICAN BANK NOTE CO BRONX PLT (Continued) **1000358712**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/12/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 09/08/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Manifest
Date achieved compliance: 11/20/1987
Evaluation lead agency: State

Evaluation date: 05/08/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/16/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 09/26/1985
Evaluation lead agency: State

Evaluation date: 04/03/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/07/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/26/1985
Evaluation lead agency: State

Evaluation date: 01/31/1983
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 12/13/1983
Evaluation lead agency: EPA

NY MANIFEST:
Country: USA
EPA ID: NYD091214718
Facility Status: Not reported
Location Address 1: GARRISON & TIFFANY ST
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10474

AMERICAN BANK NOTE CO BRONX PLT (Continued) **1000358712**

Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD091214718
Mailing Name: AMERICAN BANK NOTE COMPANY-BRONX PLANT
Mailing Contact: LACAPRIA ANTHONY RESEARCH
Mailing Address 1: TIFFANY ST & GARRISON AVE
Mailing Address 2: Not reported
Mailing City: BRONX
Mailing State: NY
Mailing Zip: 10474
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2125429200

NY MANIFEST:
Document ID: NYA7757271
Manifest Status: C
seq: Not reported
Year: 1989
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 07/21/1989
Trans1 Recv Date: 07/21/1989
Trans2 Recv Date: / /
TSD Site Recv Date: 07/21/1989
Part A Recv Date: 08/11/1989
Part B Recv Date: 08/02/1989
Generator EPA ID: NYD091214718
Trans1 EPA ID: NYD077444263
Trans2 EPA ID: Not reported
TSDF ID 1: NYD077444263
TSDF ID 2: Not reported
Manifest Tracking Number: Not reported
Import Indicator: Not reported
Export Indicator: Not reported
Discr Quantity Indicator: Not reported
Discr Type Indicator: Not reported
Discr Residue Indicator: Not reported
Discr Partial Reject Indicator: Not reported
Discr Full Reject Indicator: Not reported
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: Not reported
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 03300
Units: P - Pounds
Number of Containers: 012
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100

AMERICAN BANK NOTE CO BRONX PLT (Continued) **1000358712**

Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00040
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

Count: 6 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BRONX	S118462465	AT WEBSTER AVE	EB CROSS BRONX EXPRESSWAY		NY LTANKS
BRONX	S110247817	ROSEDALE CLEANERS	1739 E.173RD STREET	10472	NY DRYCLEANERS
BRONX	S110487611	CE - E. 173RD ST. - BRONX WORKS	WEST FARMS RD.& BRONX RIVER	10460	NY ENG CONTROLS, NY INST CONTROL, NY VCP
BRONX	S105684653	CE - ZEREGA AVE. STATION	ZEREGA AVE. BETWEEN BLACKROCK	10462	NY VCP
BRONX	S121933888	CE - ZEREGA AVE. STATION	ZEREGA AVE. BETWEEN BLACKROCK	10462	NY SHWS
BRONX COUNTY	S112231160	NYC POLICE RANGE RODMAN'S NECK	RODMAN'S NECK		NY LTANKS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 79

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/30/2018
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/08/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

LTANKS: Spills Information Database
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 10/22/2018
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/16/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/10/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 09/26/2018
Date Made Active in Reports: 10/12/2018
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 09/26/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 09/26/2018
Date Made Active in Reports: 10/12/2018
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 09/26/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 09/26/2018
Date Made Active in Reports: 10/12/2018
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 09/26/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

AST: Petroleum Bulk Storage

Registered Aboveground Storage Tanks.

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 09/26/2018
Date Made Active in Reports: 10/12/2018
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 09/26/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

TANKS: Storage Tank Faciliy Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 09/26/2018
Date Made Active in Reports: 10/12/2018
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 09/26/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 05/15/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 08/07/2018
Number of Days to Update: 42

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/21/2014
Number of Days to Update: 21

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 09/21/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP NYC: Voluntary Cleanup Program Listing NYC
New York City voluntary cleanup program sites.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/29/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 46

Source: New York City Office of Environmental Protection
Telephone: 212-788-8841
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/30/2018
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Semi-Annually

ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 02/27/2018
Date Data Arrived at EDR: 04/06/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 63

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: No Update Planned

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 12/08/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Spill Liens Information

Lien information from the Oil Spill Fund.

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 22

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

SPILLS: Spills Information Database

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 10/22/2018
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/16/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/12/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/12/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/21/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 57

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/11/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/11/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/07/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/04/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/05/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/03/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 80

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 09/11/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 30

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/22/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/23/2018
Date Made Active in Reports: 08/07/2018
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 11/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 06/29/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 08/07/2018
Number of Days to Update: 35

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaners
A listing of all registered drycleaning facilities.

Date of Government Version: 03/07/2018
Date Data Arrived at EDR: 03/30/2018
Date Made Active in Reports: 06/05/2018
Number of Days to Update: 67

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING
The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 08/21/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/12/2018
Number of Days to Update: 22

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Semi-Annually

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 12/01/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/29/2017
Date Data Arrived at EDR: 04/06/2018
Date Made Active in Reports: 06/05/2018
Number of Days to Update: 60

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

HSWDS: Hazardous Substance Waste Disposal Site Inventory
The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 08/01/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 07/18/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 08/07/2018
Number of Days to Update: 7

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: No Update Planned

VAPOR REOPENED: Vapor Intrusion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 02/15/2018
Date Made Active in Reports: 03/27/2018
Number of Days to Update: 40

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/06/2018
Date Made Active in Reports: 10/12/2018
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

COOLING TOWERS: Registered Cooling Towers

This data includes the location of cooling towers registered with New York State. The data is self-reported by owners/property managers of cooling towers in service in New York State. In August 2015, the New York State Department of Health released emergency regulations requiring the owners of cooling towers to register them with New York State.

Date of Government Version: 07/10/2018
Date Data Arrived at EDR: 07/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 56

Source: Department of Health
Telephone: 518-402-7650
Last EDR Contact: 10/17/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

CORTLAND COUNTY:

AST - CORTLAND: Cortland County Storage Tank Listing

A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 09/19/2018
Date Made Active in Reports: 10/12/2018
Number of Days to Update: 23

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

UST - CORTLAND: Cortland County Storage Tank Listing

A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 09/19/2018
Date Made Active in Reports: 10/12/2018
Number of Days to Update: 23

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

NASSAU COUNTY:

AST - NASSAU: Registered Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: No Update Planned

AST NCFM: Storage Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

TANKS NASSAU: Registered Tank Database in Nassau County
A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35
Source: Nassau County Department of Health
Telephone: 516-227-9691
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

UST - NASSAU: Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35
Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: No Update Planned

UST NCFM: Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34
Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

ROCKLAND COUNTY:

AST - ROCKLAND: Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County. Rockland County?s Petroleum Bulk Storage (PBS) program is no longer in service. All related operations/duties are now wholly overseen by the New York State Dept. of Environmental Conservation (NYSDEC).

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189
Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: No Update Planned

UST - ROCKLAND: Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County. Rockland County?s Petroleum Bulk Storage (PBS) program is no longer in service. All related operations/duties are now wholly overseen by the New York State Dept. of Environmental Conservation (NYSDEC).

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189
Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: No Update Planned

SUFFOLK COUNTY:

AST - SUFFOLK: Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13
Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: No Update Planned

UST - SUFFOLK: Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

AST - WESTCHESTER: Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 07/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 08/30/2018
Number of Days to Update: 9

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Semi-Annually

UST - WESTCHESTER: Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 07/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 08/30/2018
Number of Days to Update: 9

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Semi-Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 08/23/2018
Date Made Active in Reports: 09/18/2018
Number of Days to Update: 26

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
1428, 1458 ,1460, 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

TARGET PROPERTY COORDINATES

Latitude (North):	40.831628 - 40° 49' 53.86''
Longitude (West):	73.884168 - 73° 53' 3.00''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	594085.0
UTM Y (Meters):	4520454.0
Elevation:	8 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5940599 CENTRAL PARK, NY
Version Date:	2013
East Map:	5940605 FLUSHING, NY
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

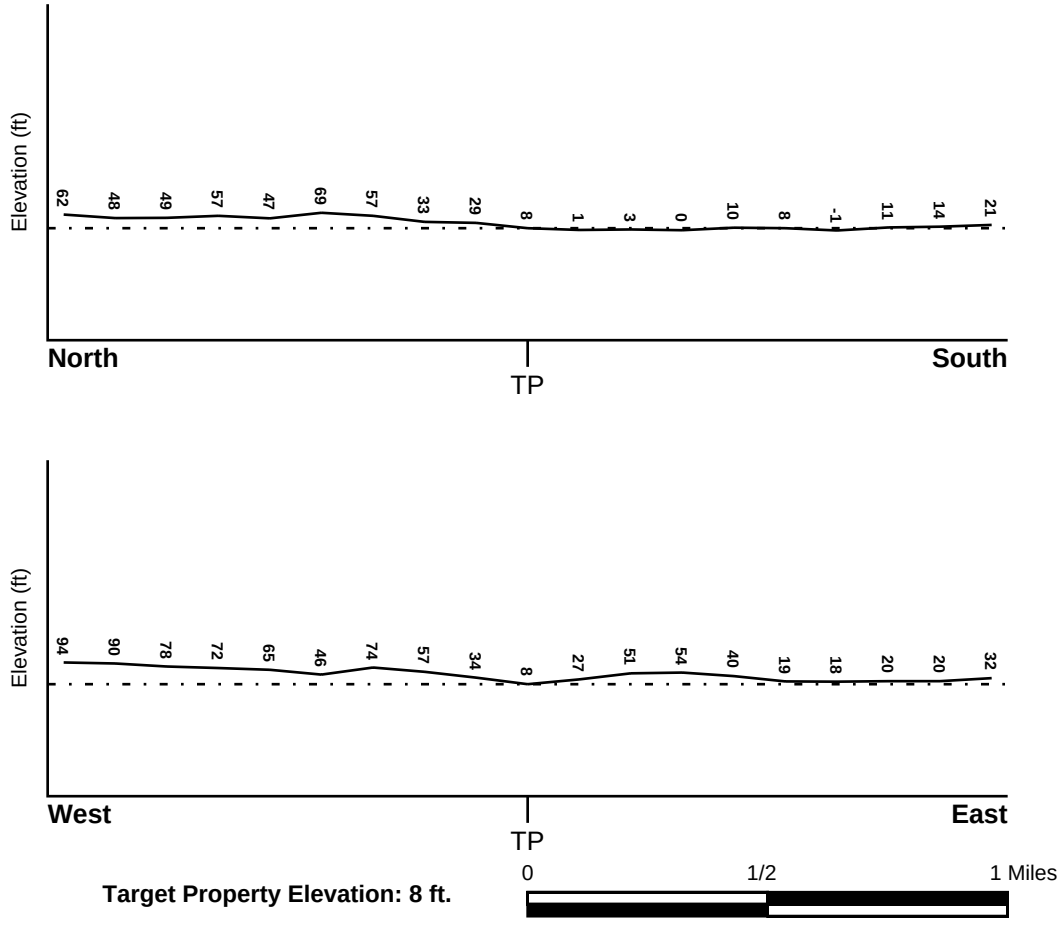
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 8 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
3604970084F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
3604970082F	FEMA FIRM Flood data
3604970101F	FEMA FIRM Flood data
3604970103F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CENTRAL PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Ordovician
Series:	Middle Ordovician (Mohawkian)
Code:	O2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
loamy sand
sandy loam
fine sandy loam

Surficial Soil Types: silt loam
loamy sand
sandy loam
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock
very gravelly - loamy sand
stratified
sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000833952	1/4 - 1/2 Mile SSE
2	USGS40000834130	1/4 - 1/2 Mile ENE
3	USGS40000833763	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

No Wells Found

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	NYOG90000013135	0 - 1/8 Mile NE
A2	NYOG90000013136	0 - 1/8 Mile NE

PHYSICAL SETTING SOURCE MAP - 05468323.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	1428, 1458 ,1460, 1480 Sheridan Expressway	CLIENT:	CDM Smith, Inc.
ADDRESS:	1428, 1458 ,1460, 1480 Sheridan Expressway Bronx NY 10459	CONTACT:	Emily Wong
LAT/LONG:	40.831628 / 73.884168	INQUIRY #:	05468323.2r
		DATE:	October 30, 2018 11:42 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE **FED USGS** **USGS40000833952**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 51	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	350	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

2
ENE **FED USGS** **USGS40000834130**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 76. 1	Type:	Well
Description:	West s/o Morrison Ave., 50 ft s/o E. 174th St.		
HUC:	02030102	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported		
Aquifer:	New England crystalline-rock aquifers		
Formation Type:	Bedrock	Aquifer Type:	Unconfined single aquifer
Construction Date:	20090727	Well Depth:	20
Well Depth Units:	ft	Well Hole Depth:	20
Well Hole Depth Units:	ft		

3
South **FED USGS** **USGS40000833763**
1/2 - 1 Mile
Higher

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 55	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	210	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A1
NE
0 - 1/8 Mile

OIL_GAS **NYOG90000013135**

API Well #:	31005300000000	Well Name:	Geothermal Well (SCW) W-1
Owner:	New York City Department of Parks & Recreation		
Operator:	2840	Well Type:	Not Listed
Well Status:	Drilling Completed	Permit Date:	0
Drill Date:	0	Completion Date:	0
Plug Date:	0	Field Name:	Not Reported
Formation:	Not Applicable	Borehole Slant:	Vertical
State Owned Lease:	Not Reported	Proposed Depth:	0
True Depth:	1500	Measured Length:	1500

A2
NE
0 - 1/8 Mile

OIL_GAS **NYOG90000013136**

API Well #:	31005300010000	Well Name:	Geothermal Well (SCW) W-2
Owner:	New York City Department of Parks & Recreation		
Operator:	2840	Well Type:	Not Listed
Well Status:	Drilling in Progress	Permit Date:	0
Drill Date:	0	Completion Date:	0
Plug Date:	0	Field Name:	Not Reported
Formation:	Not Applicable	Borehole Slant:	Vertical
State Owned Lease:	Not Reported	Proposed Depth:	0
True Depth:	0	Measured Length:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for BRONX County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for BRONX COUNTY, NY

Number of sites tested: 31

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	96%	4%	0%
Basement	1.110 pCi/L	42%	58%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix E

Appendix E

Historic Aerial Photographs



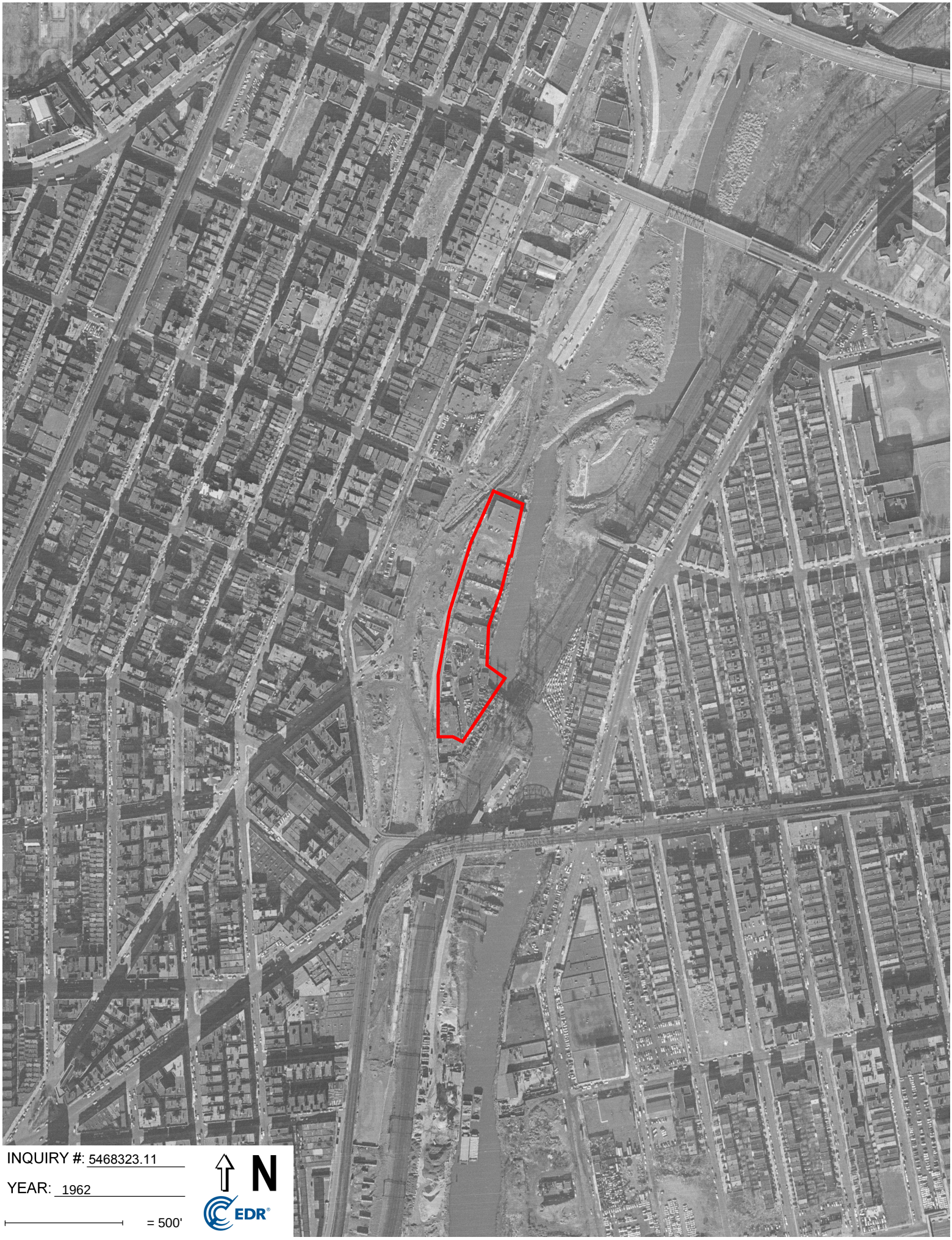
INQUIRY #: 5468323.11

YEAR: 1966

= 500'

N

EDR



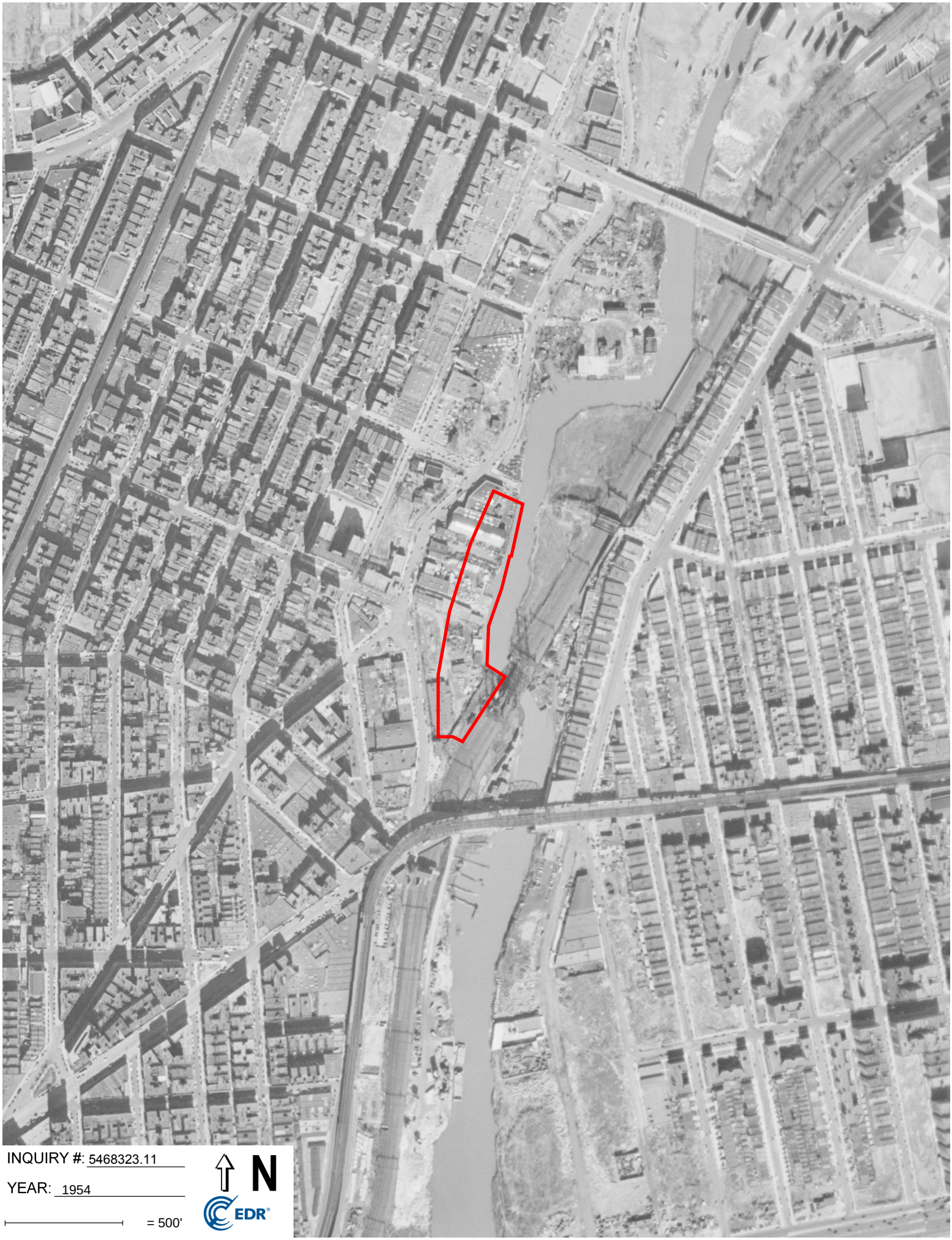
INQUIRY #: 5468323.11

YEAR: 1962

= 500'

N

EDR



INQUIRY #: 5468323.11

YEAR: 1954

= 500'

N

EDR



INQUIRY #: 5468323.11

YEAR: 1951

= 500'

N

EDR



INQUIRY #: 5468323.11

YEAR: 1924

= 500'

N

EDR

Appendix F

Appendix F

Topographic Maps

1428, 1458 ,1460, 1480 Sheridan Expressway

1428, 1458 ,1460, 1480 Sheridan Expressway

Bronx, NY 10459

Inquiry Number: 5468323.4

October 29, 2018

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

10/29/18

Site Name:

1428, 1458 ,1460, 1480 Sherid
1428, 1458 ,1460, 1480 Sherid
Bronx, NY 10459
EDR Inquiry # 5468323.4

Client Name:

CDM Smith, Inc.
110 Fieldcrest Ave #8 6th Floor
Edison, NJ 08837
Contact: Emily Wong

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by CDM Smith, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: NA

Coordinates:

Latitude:	40.831628 40° 49' 54" North
Longitude:	-73.884168 -73° 53' 3" West
UTM Zone:	Zone 18 North
UTM X Meters:	594082.46
UTM Y Meters:	4520665.49
Elevation:	8.86' above sea level

Maps Provided:

2013
1995, 1997
1979
1966
1955, 1956
1947
1900
1898
1897

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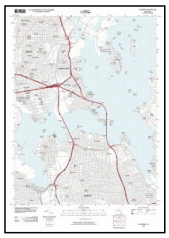
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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets

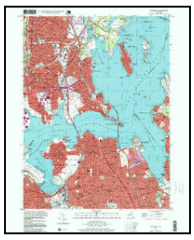


Flushing
2013
7.5-minute, 24000

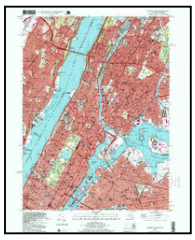


Central Park
2013
7.5-minute, 24000

1995, 1997 Source Sheets



Flushing
1995
7.5-minute, 24000
Aerial Photo Revised 1977

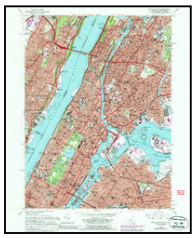


Central Park
1997
7.5-minute, 24000
Aerial Photo Revised 1997

1979 Source Sheets



Flushing
1979
7.5-minute, 24000
Aerial Photo Revised 1977

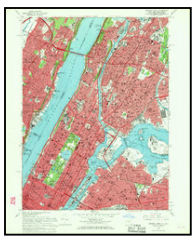


Central Park
1979
7.5-minute, 24000
Aerial Photo Revised 1977

1966 Source Sheets



Flushing
1966
7.5-minute, 24000
Aerial Photo Revised 1954

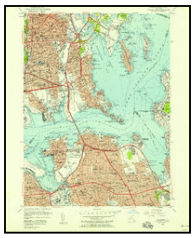


Central Park
1966
7.5-minute, 24000
Aerial Photo Revised 1966

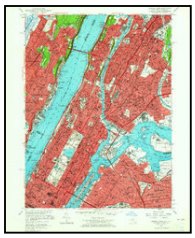
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1955, 1956 Source Sheets



Flushing
1955
7.5-minute, 24000
Aerial Photo Revised 1954



Central Park
1956
7.5-minute, 24000

1947 Source Sheets



Central Park
1947
7.5-minute, 24000
Aerial Photo Revised 1941



Flushing
1947
7.5-minute, 24000
Aerial Photo Revised 1942

1900 Source Sheets



Harlem
1900
15-minute, 62500

1898 Source Sheets



Harlem
1898
15-minute, 62500

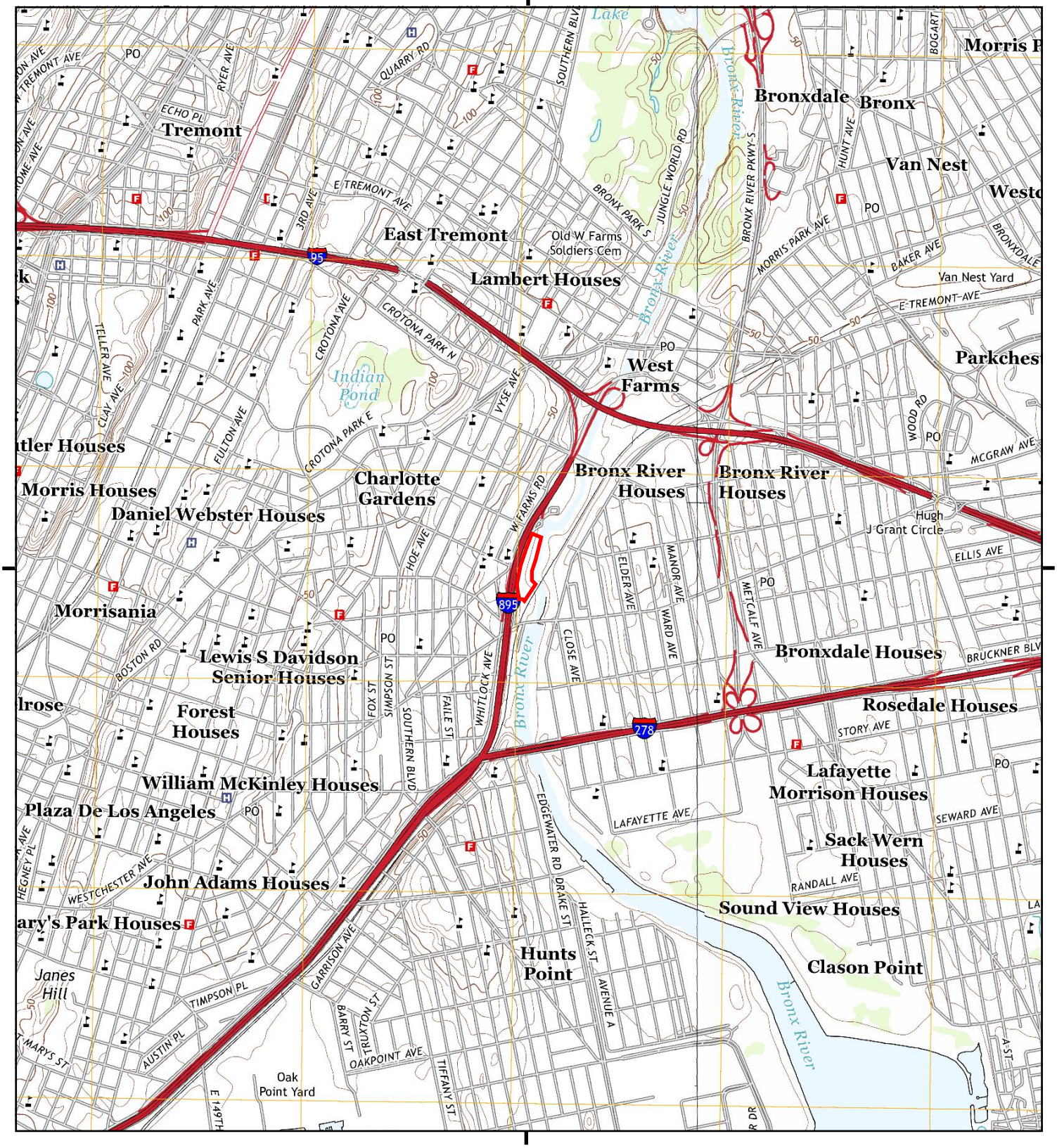
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1897 Source Sheets



Harlem
1897
15-minute, 62500



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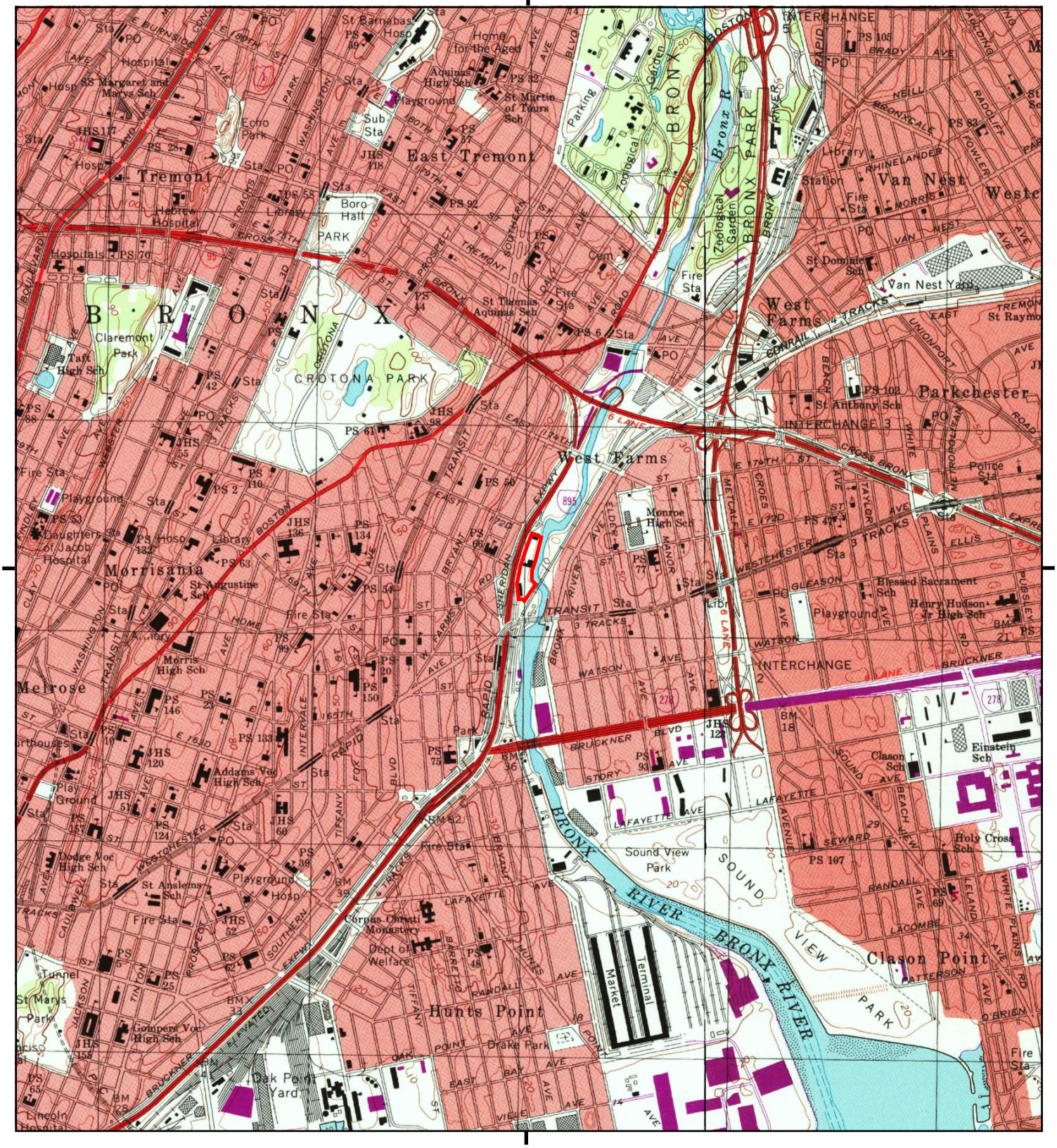
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Central Park, 2013, 7.5-minute
E, Flushing, 2013, 7.5-minute

SITE NAME: 1428, 1458 ,1460, 1480 Sheridan Expres
ADDRESS: 1428, 1458 ,1460, 1480 Sheridan Expres
Bronx, NY 10459
CLIENT: CDM Smith, Inc.

N



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

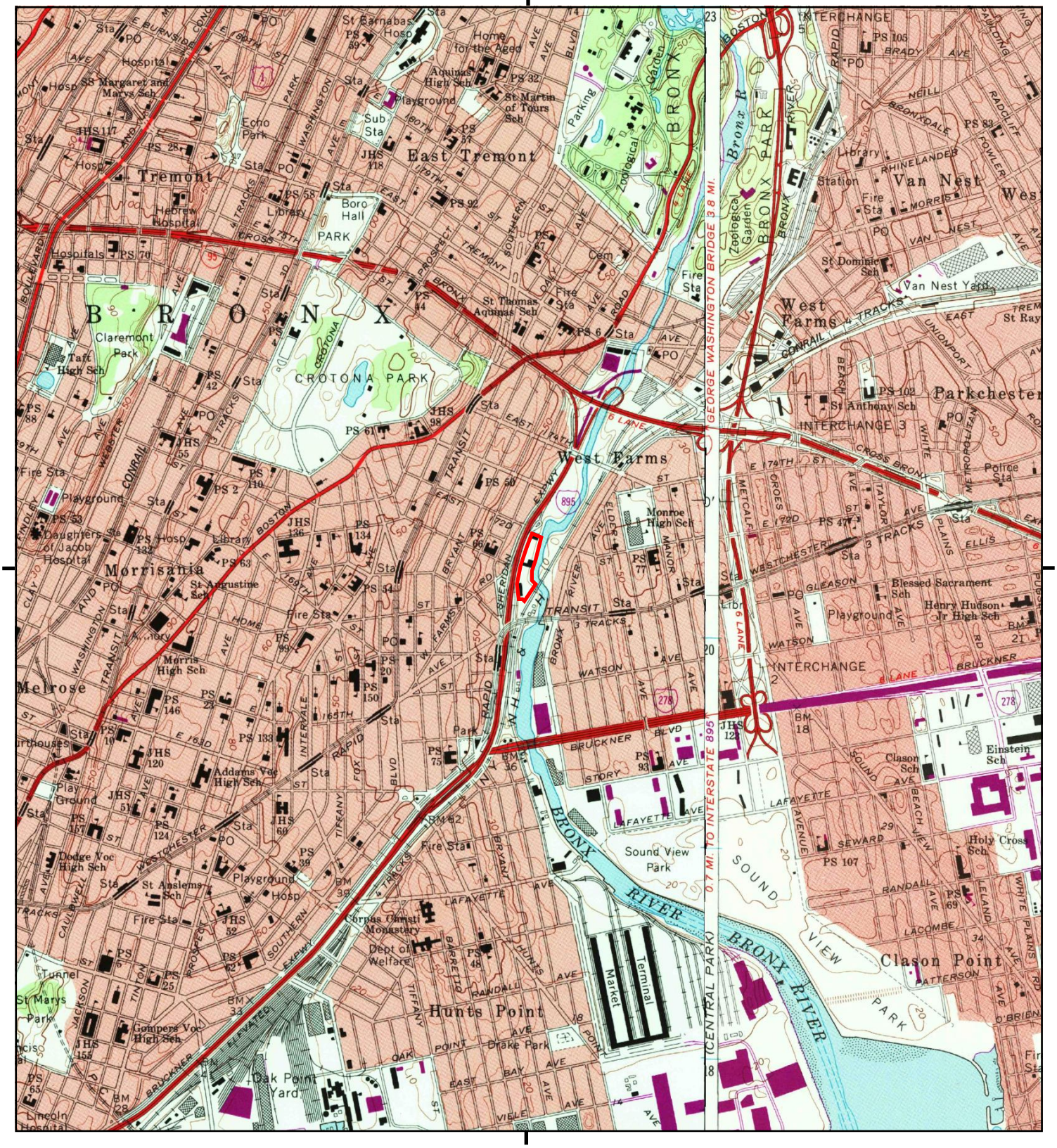
TP, Central Park, 1997, 7.5-minute
E, Flushing, 1995, 7.5-minute

SITE NAME: 1428, 1458 ,1460, 1480 Sheridan Expres
ADDRESS: 1428, 1458 ,1460, 1480 Sheridan Expres
Bronx, NY 10459
CLIENT: CDM Smith, Inc.

N

Historical Topo Map

1979



This report includes information from the following map sheet(s).

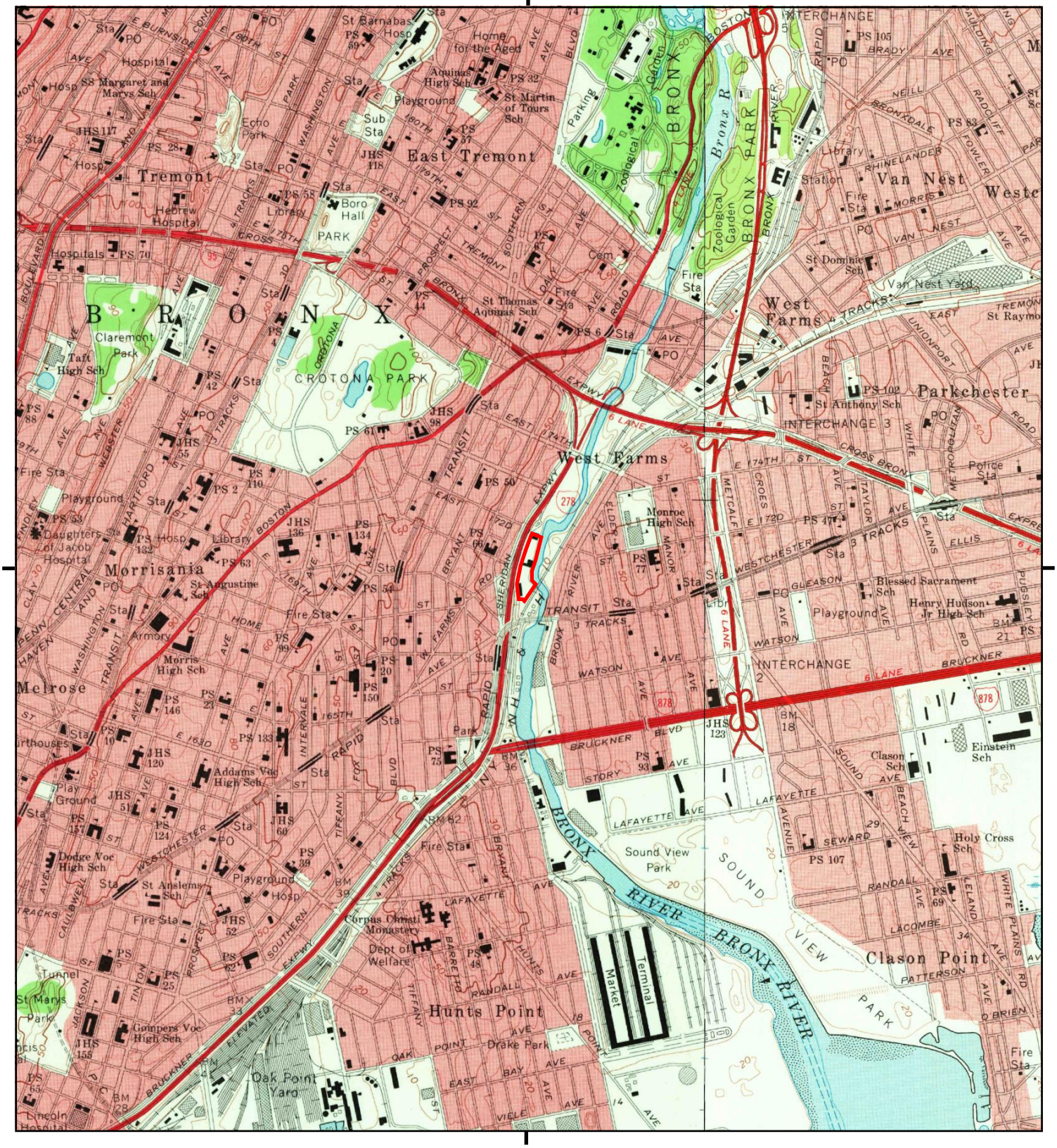
0 Miles 0.25 0.5 1 1.5

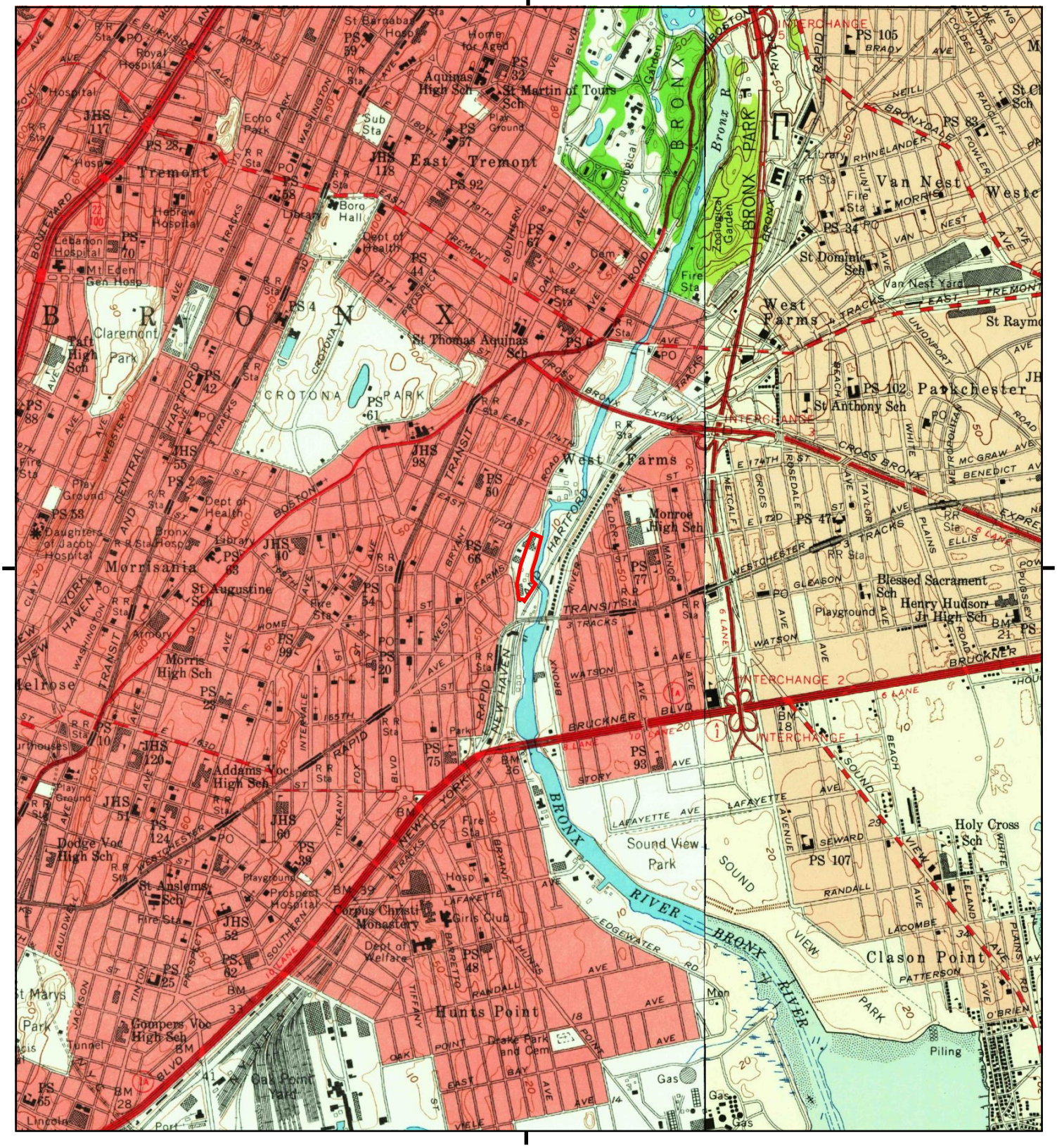
NW N NE
W E
SW S SE

TP, Central Park, 1979, 7.5-minute
E, Flushing, 1979, 7.5-minute

SITE NAME: 1428, 1458 ,1460, 1480 Sheridan Expres
ADDRESS: 1428, 1458 ,1460, 1480 Sheridan Expres
Bronx, NY 10459
CLIENT: CDM Smith, Inc.

N


BRONX
East Tremont
Tremont
West Farms
Morrisania
Melrose
Hunts Point
Clason Point
Parkchester
Van Nest
CROTONA PARK
Claremont Park
Boro Hall PARK
Bronx Park
Zoological Garden
Sound View Park
Oak Point Yard
Bronx River
BRONX RIVER
SOUND VIEW PARK
Market Terminal
INTERCHANGE 2
INTERCHANGE 3
Home for the Aged
Aquinas High Sch
St Martin of Tours Sch
St Barnabas Hosp
St Margaret and Marys Sch
Hebrew Hospital
Hospitals
Boro Hall Library
St Thomas Aquinas Sch
St Anthony Sch
St Dominic Sch
Van Nest Yard
Monroe High Sch
Blessed Sacrament Sch
Henry Hudson Jr High Sch
Morris High Sch
Addams Voc High Sch
Dodge Voc High Sch
Gompers Voc High Sch
Einstein Sch
Clason Sch
Holy Cross Sch
Police Sta
Fire Sta
Playground
Library
Hospital
Corpus Christi Monastery
Dept of Welfare
Drake Park
Taft High Sch
Daughters of Jacob Hospital
St Augustine Sch
Armory
Lincoln Hospital
Tunnel
St Marys Park
Play Ground
Echo Park
Sub Sta
Parking
Cem
Police Sta
Fire Sta
Sta
PO
Hosp
Hospital
Library
Playground
Parking
Cem
Fire Sta
Police Sta
Sub



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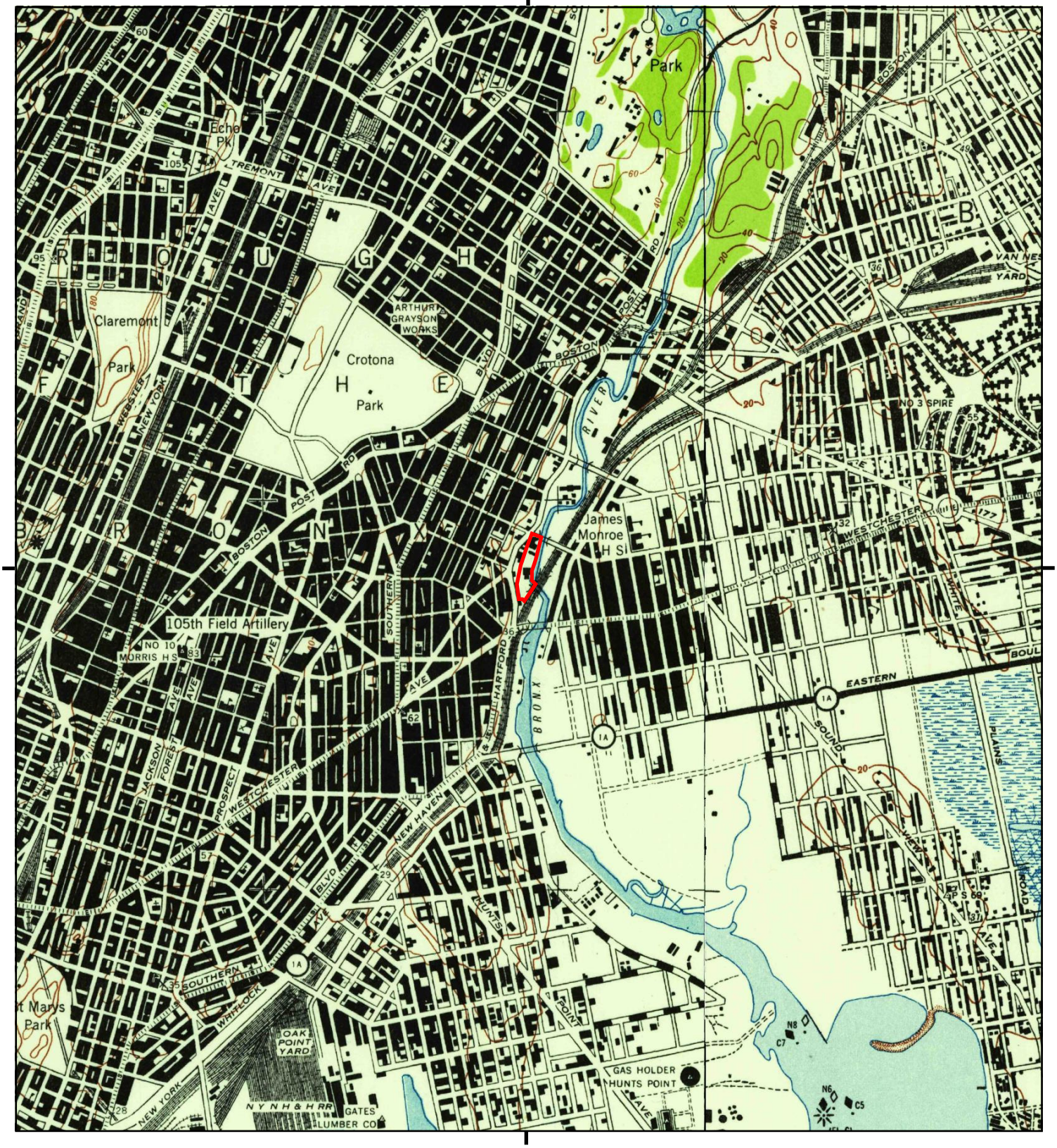
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NW N NE
W E
SW S SE

TP, Central Park, 1956, 7.5-minute
E, Flushing, 1955, 7.5-minute

SITE NAME: 1428, 1458 ,1460, 1480 Sheridan Expres
ADDRESS: 1428, 1458 ,1460, 1480 Sheridan Expres
Bronx, NY 10459
CLIENT: CDM Smith, Inc.

N



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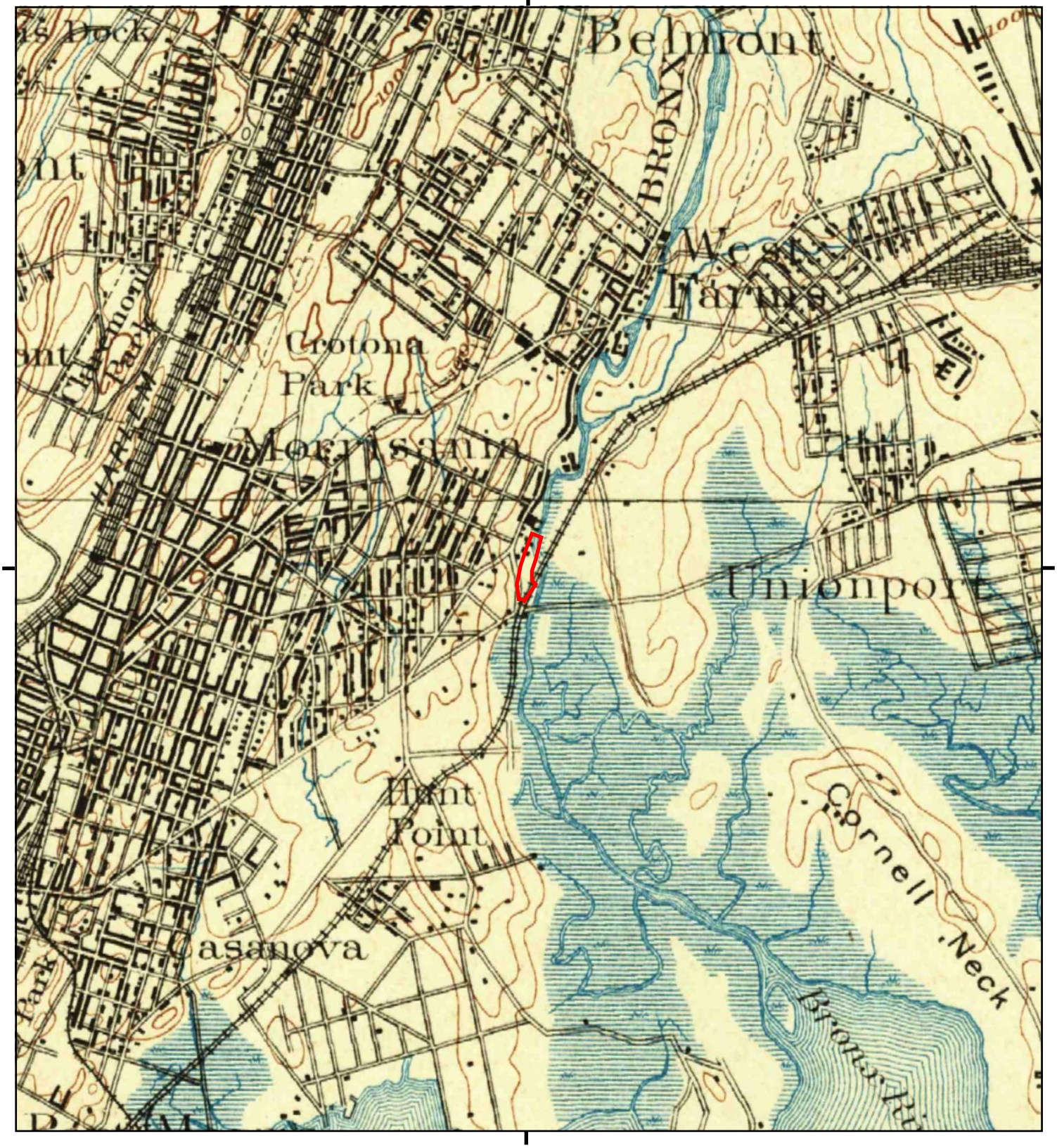
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Central Park, 1947, 7.5-minute
E, Flushing, 1947, 7.5-minute

SITE NAME: 1428, 1458 ,1460, 1480 Sheridan Expres
ADDRESS: 1428, 1458 ,1460, 1480 Sheridan Expres
Bronx, NY 10459
CLIENT: CDM Smith, Inc.

N



This report includes information from the following map sheet(s).

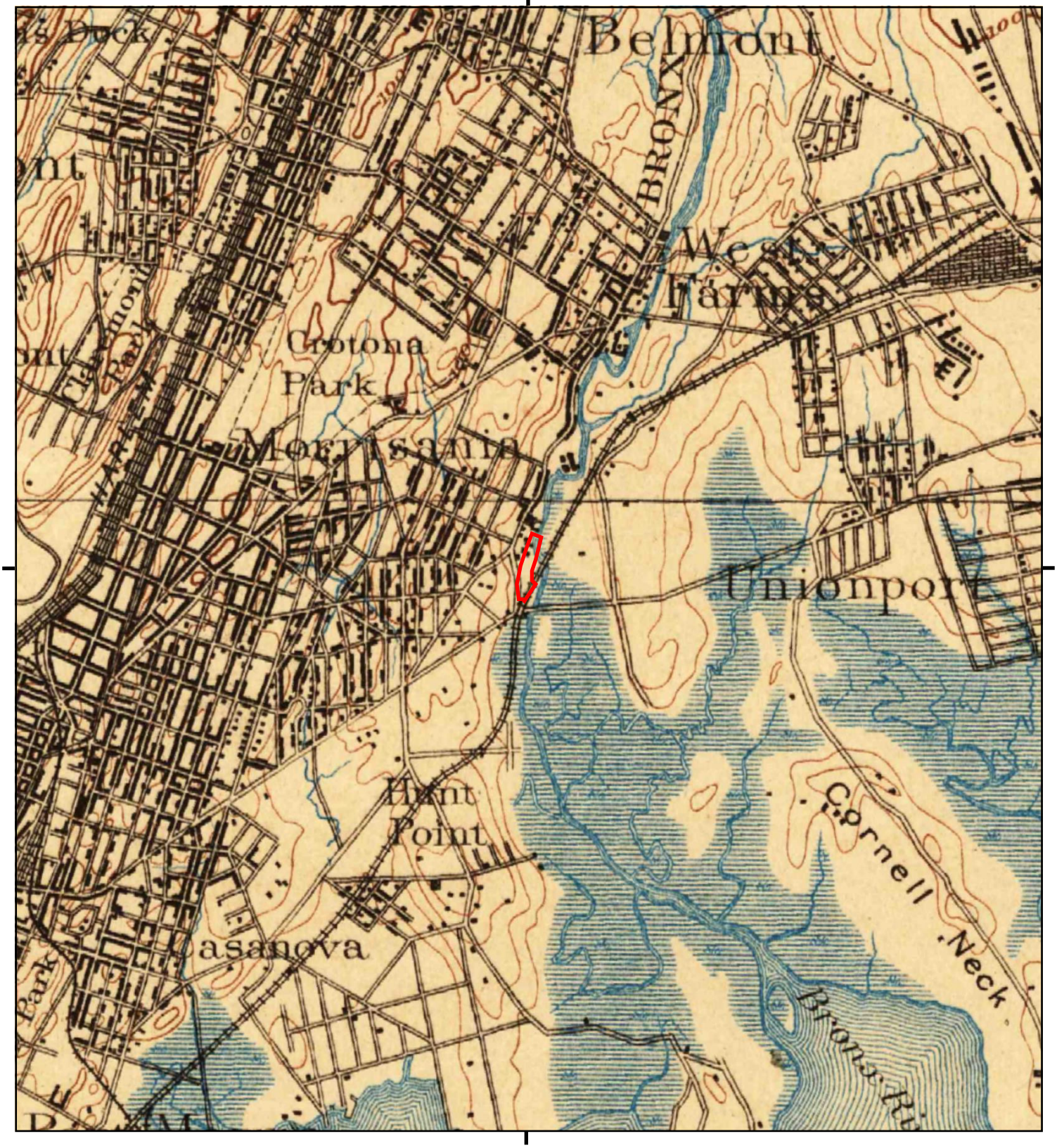
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NW N NE
W E
SW S SE

TP, Harlem, 1900, 15-minute

SITE NAME: 1428, 1458 ,1460, 1480 Sheridan Expres
ADDRESS: 1428, 1458 ,1460, 1480 Sheridan Expres
Bronx, NY 10459
CLIENT: CDM Smith, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Harlem, 1898, 15-minute

SITE NAME: 1428, 1458 ,1460, 1480 Sheridan Expres
ADDRESS: 1428, 1458 ,1460, 1480 Sheridan Expres
Bronx, NY 10459
CLIENT: CDM Smith, Inc.

N



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

TP, Harlem, 1897, 15-minute

SITE NAME: 1428, 1458 ,1460, 1480 Sheridan Expres
ADDRESS: 1428, 1458 ,1460, 1480 Sheridan Expres
Bronx, NY 10459
CLIENT: CDM Smith, Inc.

N

Appendix G

Appendix G

Historic Sanborn Maps

1428, 1458 ,1460, 1480 Sheridan Expressway

1428, 1458 ,1460, 1480 Sheridan Expressway

Bronx, NY 10459

Inquiry Number: 5468323.3

October 30, 2018

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/30/18

Site Name:

1428, 1458 ,1460, 1480 Sherid
1428, 1458 ,1460, 1480 Sherid
Bronx, NY 10459
EDR Inquiry # 5468323.3

Client Name:

CDM Smith, Inc.
110 Fieldcrest Ave #8 6th Floor
Edison, NJ 08837
Contact: Emily Wong

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Certified Sanborn Results:

Certification # A984-45E6-8156

PO # NA

Project NA

Maps Provided:

2007	1996	1985	1950
2006	1995	1983	1928
2005	1994	1981	1919
2004	1993	1980	1915
2003	1992	1979	1903
2002	1991	1978	1901
2001	1989	1977	1896
1998	1986	1969	

Sanborn® Library search results

Certification #: A984-45E6-8156

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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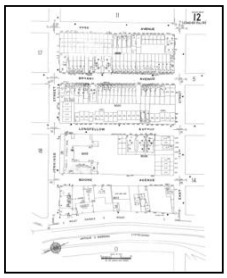
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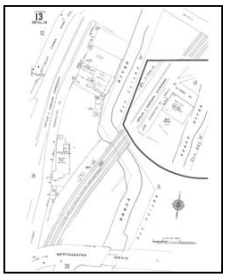
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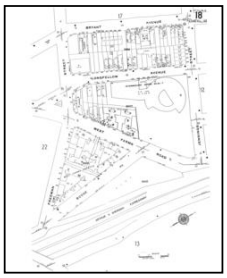
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets


Volume 16, Sheet 12
2007

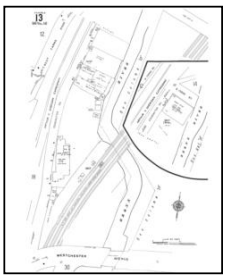

Volume 16, Sheet 13
2007

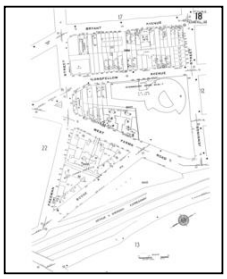

Volume 16, Sheet 18
2007

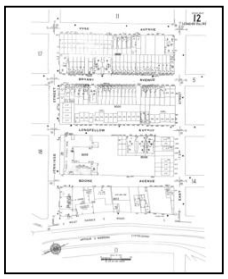

Volume 17, Sheet 14
2007

2006 Source Sheets

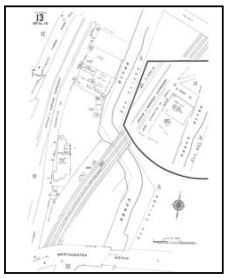

Volume 17, Sheet 14
2006

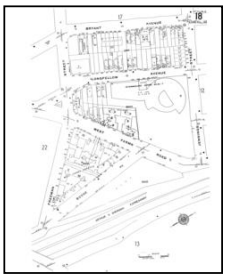

Volume 16, Sheet 13
2006

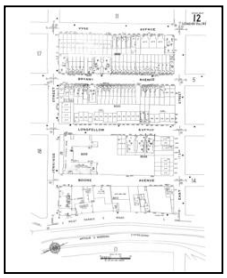

Volume 16, Sheet 18
2006


Volume 16, Sheet 12
2006

2005 Source Sheets


Volume 16, Sheet 13
2005

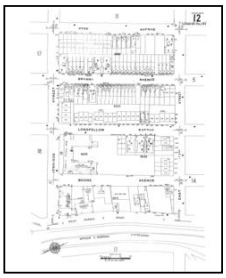

Volume 16, Sheet 18
2005

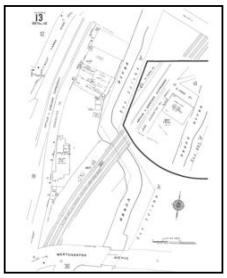

Volume 16, Sheet 12
2005

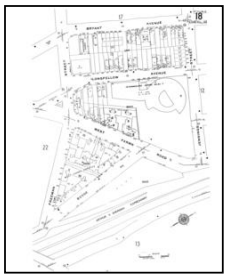

Volume 17, Sheet 14
2005

2004 Source Sheets


Volume 17, Sheet 14
2004


Volume 16, Sheet 12
2004

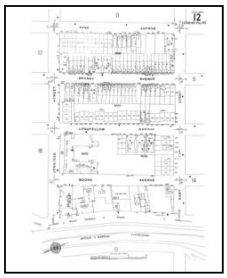

Volume 16, Sheet 13
2004

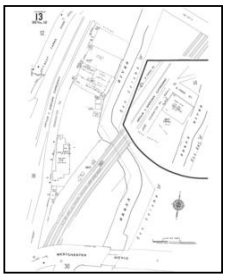

Volume 16, Sheet 18
2004

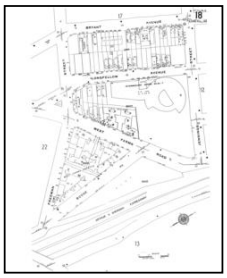
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2003 Source Sheets


Volume 16, Sheet 12
2003

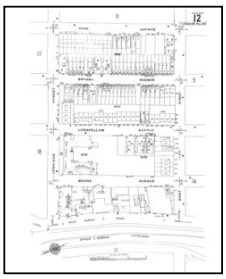

Volume 16, Sheet 13
2003

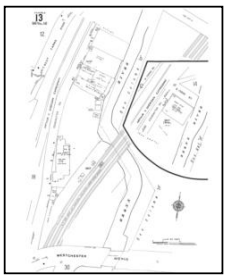

Volume 16, Sheet 18
2003

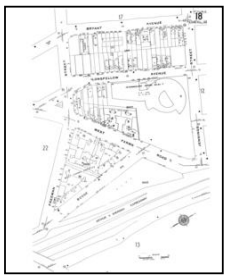

Volume 17, Sheet 14
2003

2002 Source Sheets

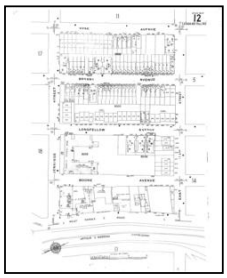

Volume 17, Sheet 14
2002

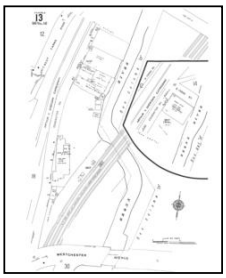

Volume 16, Sheet 12
2002

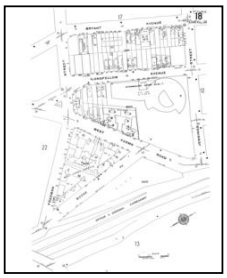

Volume 16, Sheet 13
2002


Volume 16, Sheet 18
2002

2001 Source Sheets


Volume 16, Sheet 12
2001

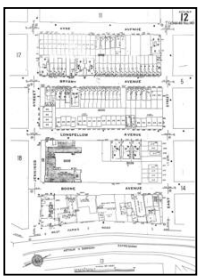

Volume 16, Sheet 13
2001

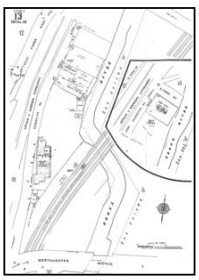

Volume 16, Sheet 18
2001

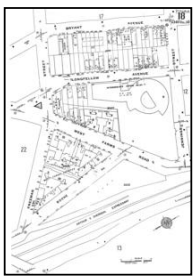

Volume 17, Sheet 14
2001

1998 Source Sheets


Volume 17, Sheet 14
1998


Volume 16, Sheet 12
1998


Volume 16, Sheet 13
1998

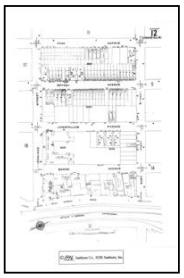

Volume 16, Sheet 18
1998

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1996 Source Sheets


Volume 16, Sheet 18
1996

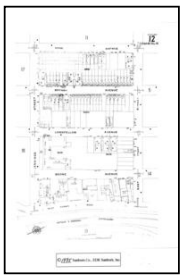

Volume 16, Sheet 12
1996


Volume 16, Sheet 13
1996


Volume 17, Sheet 14
1996

1995 Source Sheets

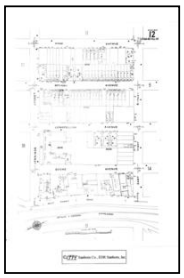

Volume 17, Sheet 14
1995

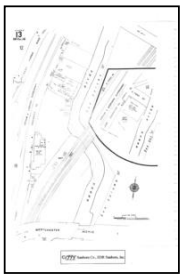

Volume 16, Sheet 12
1995


Volume 16, Sheet 13
1995


Volume 16, Sheet 18
1995

1994 Source Sheets

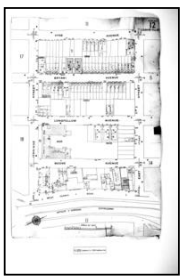

Volume 16, Sheet 12
1994

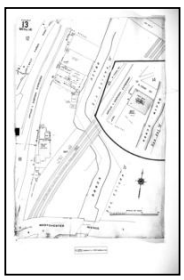

Volume 16, Sheet 13
1994


Volume 16, Sheet 18
1994

1993 Source Sheets


Volume 17, Sheet 14
1993


Volume 16, Sheet 12
1993

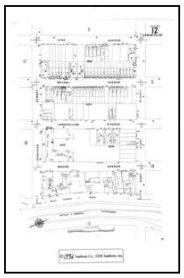

Volume 16, Sheet 13
1993

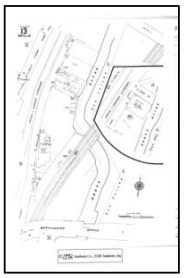

Volume 16, Sheet 18
1993

Sanborn Sheet Key

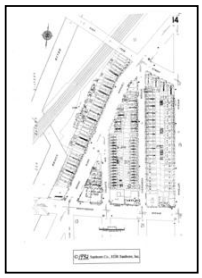
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1992 Source Sheets

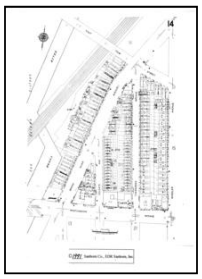

Volume 16, Sheet 12
1992

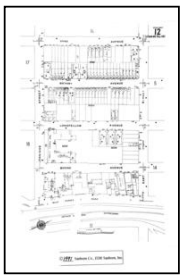

Volume 16, Sheet 13
1992

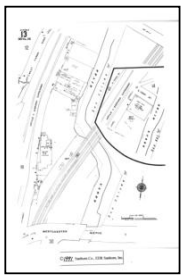

Volume 16, Sheet 18
1992


Volume 17, Sheet 14
1992

1991 Source Sheets

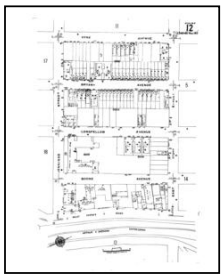

Volume 17, Sheet 14
1991

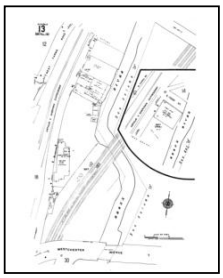

Volume 16, Sheet 12
1991

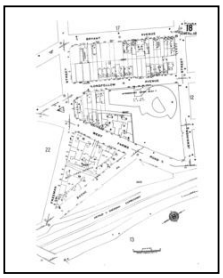

Volume 16, Sheet 13
1991

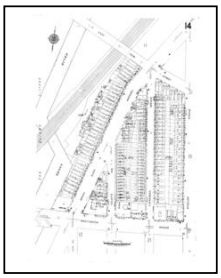

Volume 16, Sheet 18
1991

1989 Source Sheets

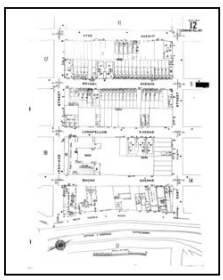

Volume 16, Sheet 12
1989

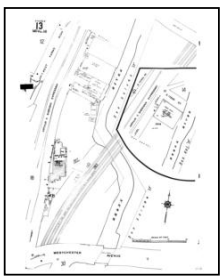

Volume 16, Sheet 13
1989

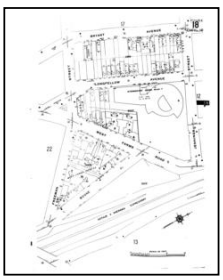

Volume 16, Sheet 18
1989


Volume 17, Sheet 14
1989

1986 Source Sheets


Volume 16, Sheet 12
1986


Volume 16, Sheet 13
1986

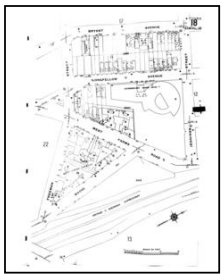

Volume 16, Sheet 18
1986

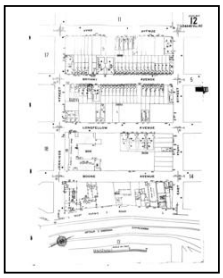

Volume 17, Sheet 14
1986

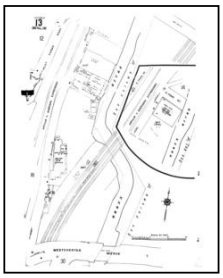
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

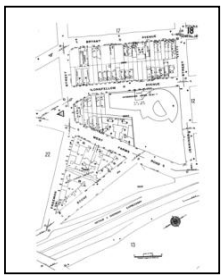
1985 Source Sheets

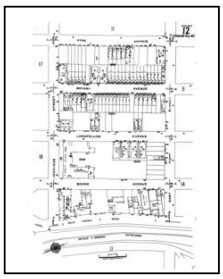

Volume 16, Sheet 18
1985

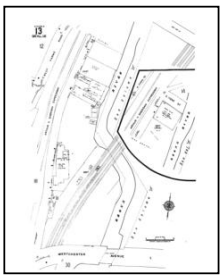

Volume 16, Sheet 12
1985

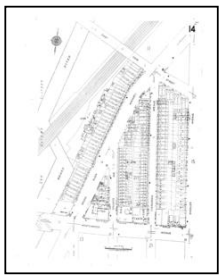

Volume 16, Sheet 13
1985

1983 Source Sheets


Volume 16, Sheet 18
1983

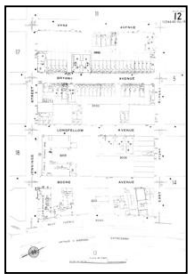

Volume 16, Sheet 12
1983


Volume 16, Sheet 13
1983


Volume 17, Sheet 14
1983

1981 Source Sheets

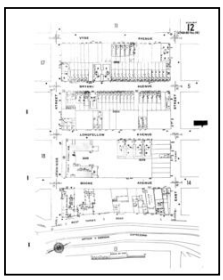

Volume 17, Sheet 14
1981

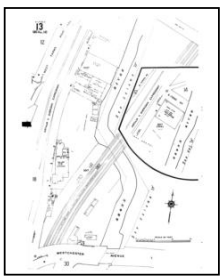

Volume 16, Sheet 12
1981

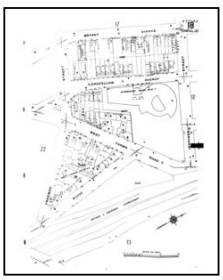

Volume 16, Sheet 13
1981


Volume 16, Sheet 18
1981

1980 Source Sheets


Volume 16, Sheet 12
1980

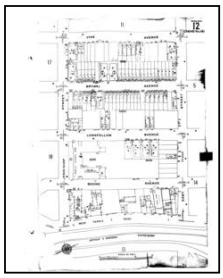

Volume 16, Sheet 13
1980

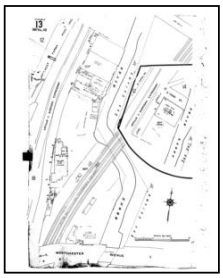

Volume 16, Sheet 18
1980

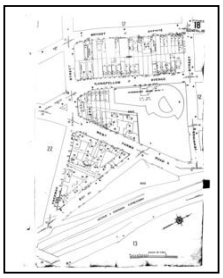
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

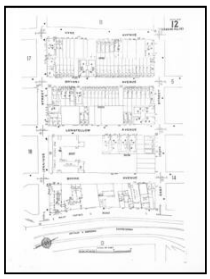
1979 Source Sheets


Volume 16, Sheet 12
1979


Volume 16, Sheet 13
1979

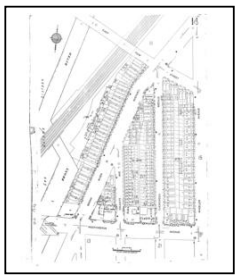

Volume 16, Sheet 18
1979

1978 Source Sheets

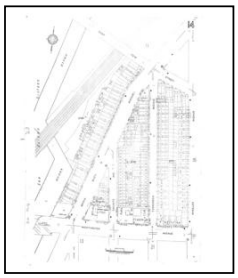

Volume 16, Sheet 12
1978

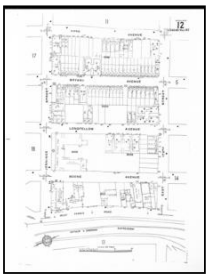

Volume 16, Sheet 13
1978


Volume 16, Sheet 18
1978


Volume 17, Sheet 14
1978

1977 Source Sheets

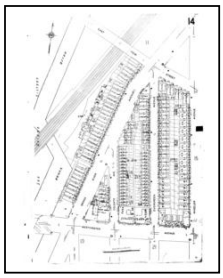

Volume 17, Sheet 14
1977


Volume 16, Sheet 12
1977


Volume 16, Sheet 13
1977


Volume 16, Sheet 18
1977

1969 Source Sheets

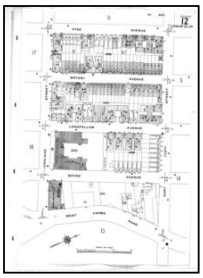

Volume 17, Sheet 14
1969

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1950 Source Sheets


Volume 17, Sheet 14
1950


Volume 16, Sheet 12
1950

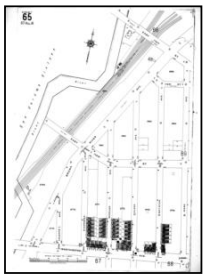

Volume 16, Sheet 13
1950


Volume 16, Sheet 18
1950

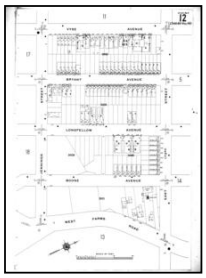
1928 Source Sheets


Volume 17, Sheet 14
1928

1919 Source Sheets


Volume 17, Sheet 65
1919

1915 Source Sheets


Volume 16, Sheet 12
1915

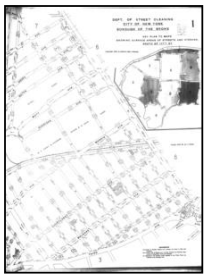

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1915


Volume 16, Sheet 18
1915

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1903 Source Sheets



Volume Atlas Maps, Sheet 1
1903



Volume Atlas Maps, Sheet 09
1903

1901 Source Sheets



Volume 14, Sheet 46
1901

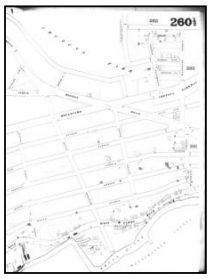
1896 Source Sheets



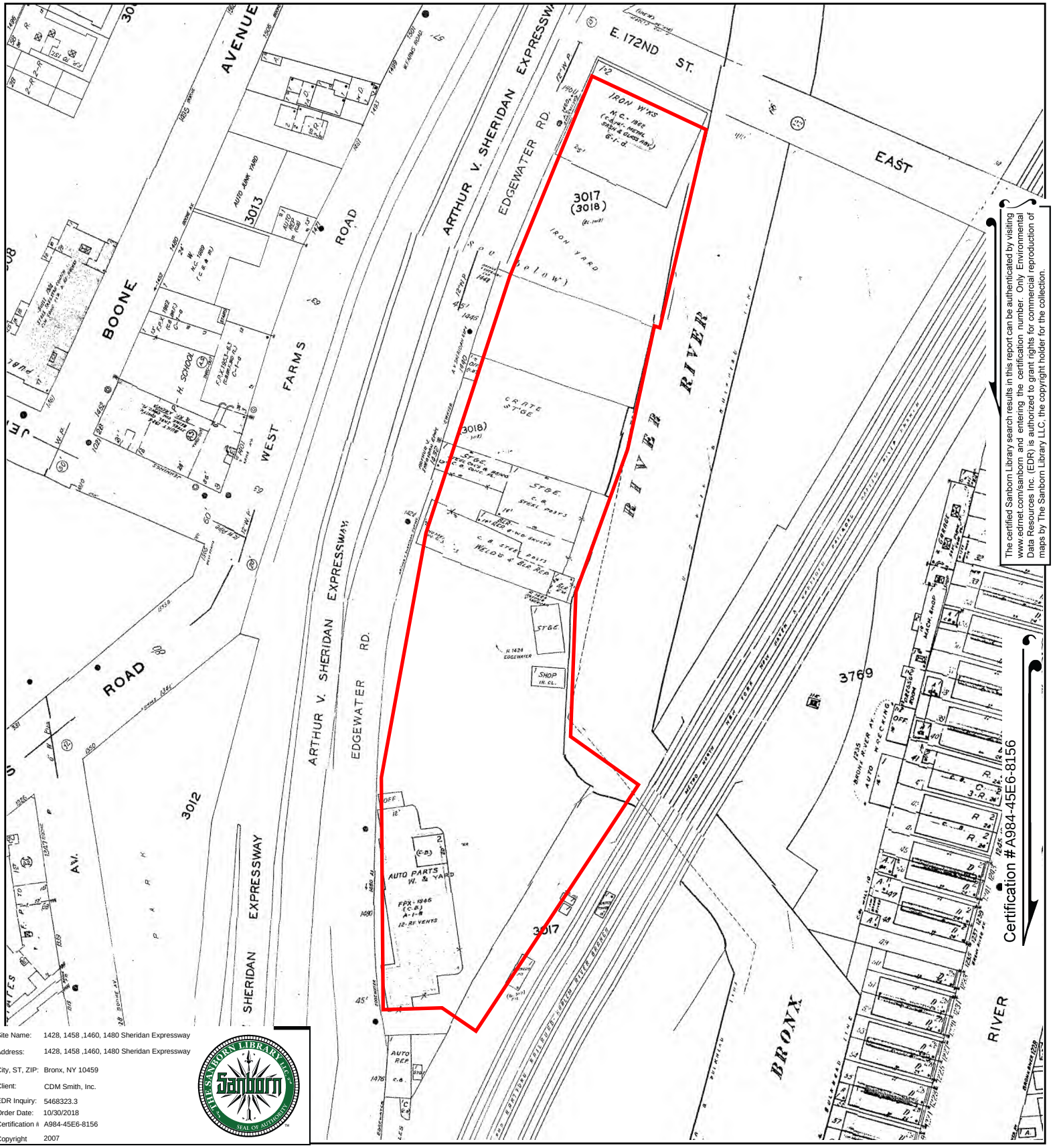
Volume 12, Sheet 260
1896



Volume 12, Sheet 260.5
1896



Volume 12, Sheet 260.5
1896



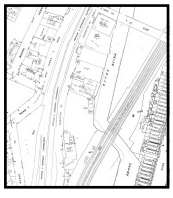
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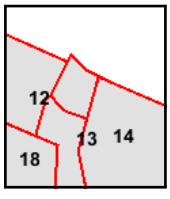
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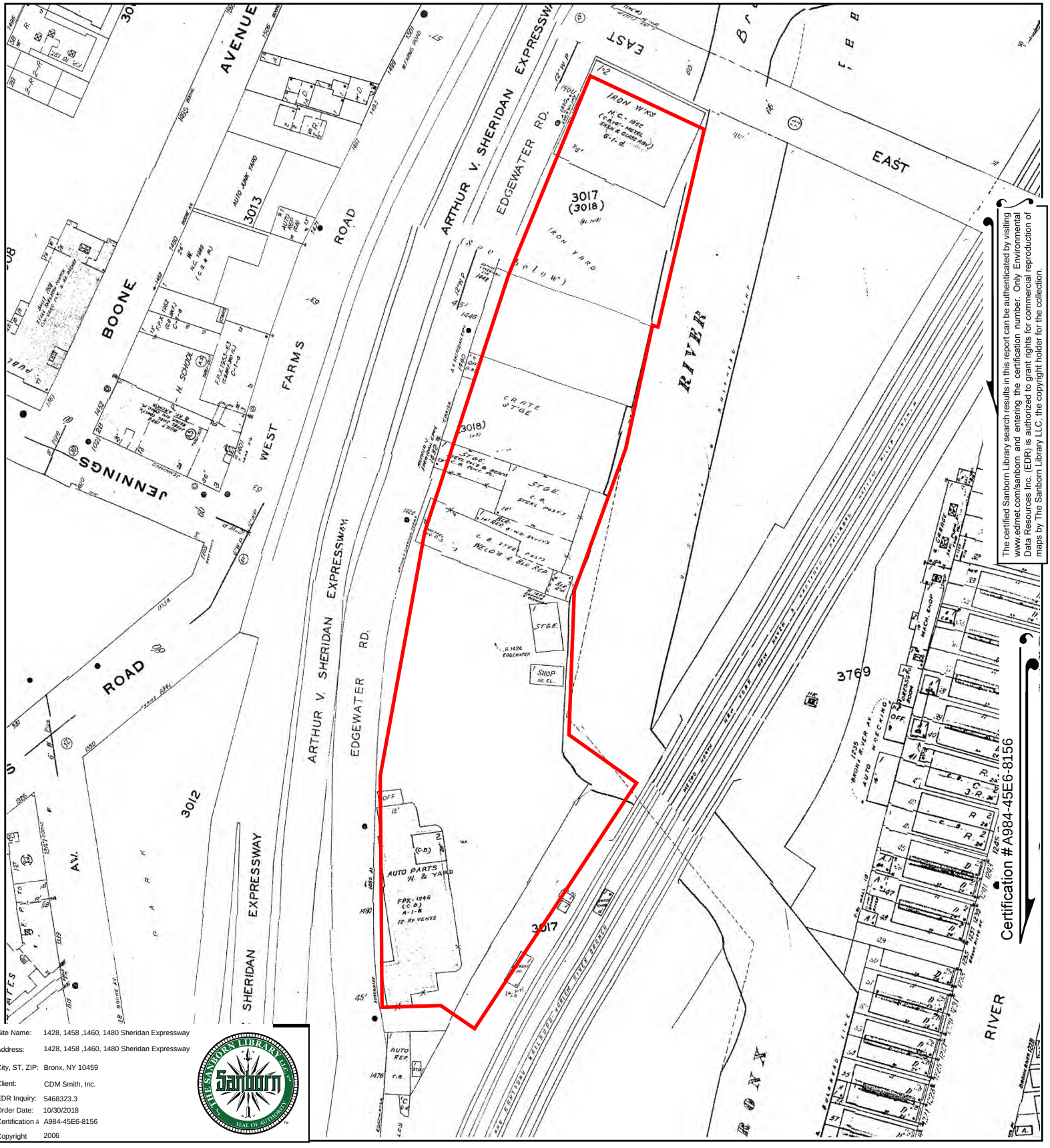
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Volume 16, Sheet 18
Volume 16, Sheet 13
Volume 16, Sheet 12

N



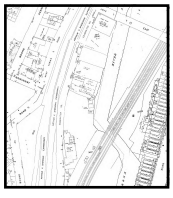
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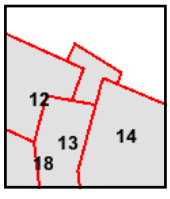
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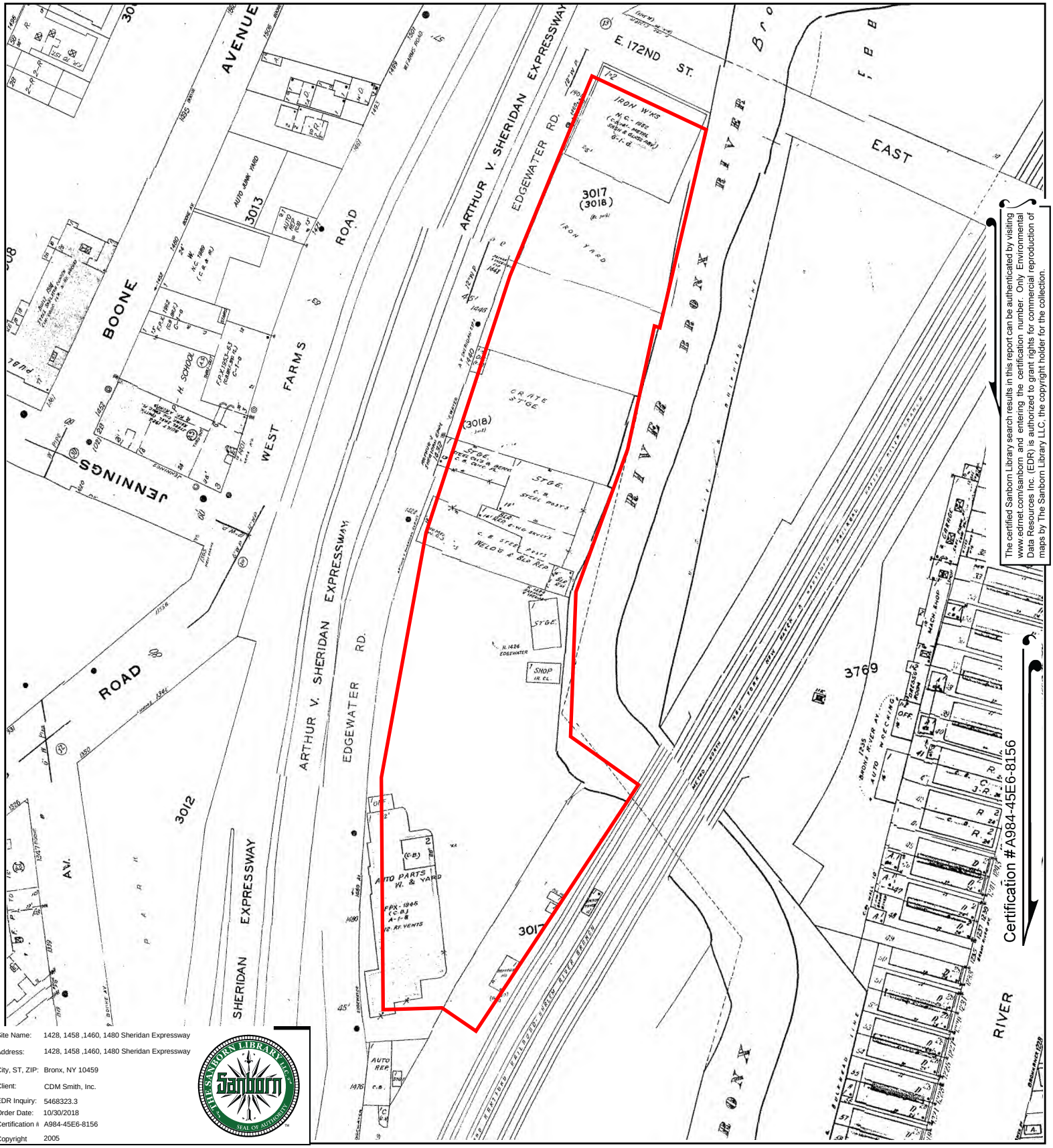




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Volume 16, Sheet 18
Volume 16, Sheet 13
Volume 17, Sheet 14

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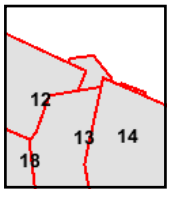
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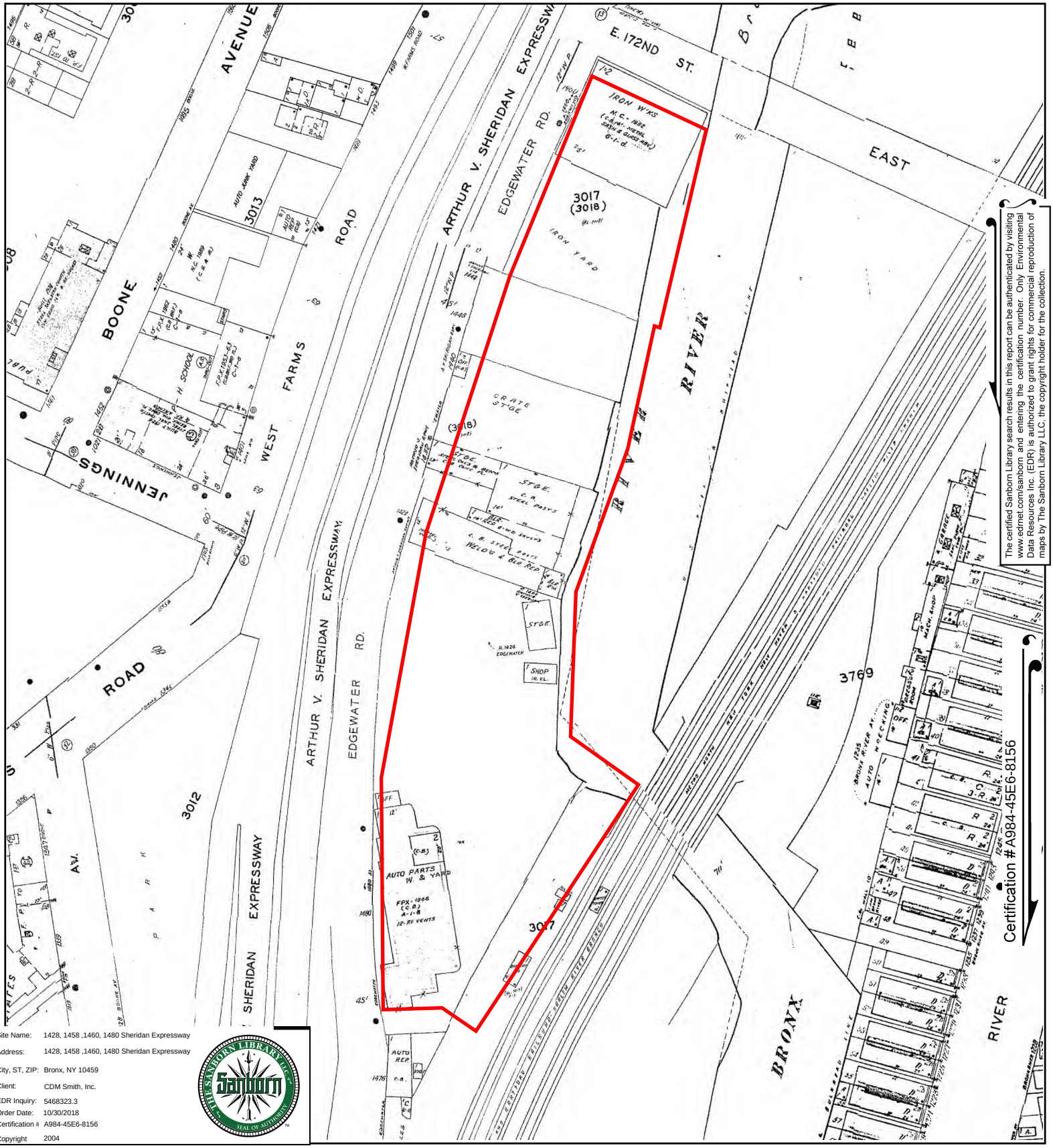
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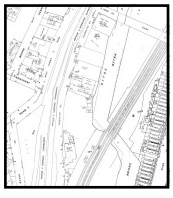
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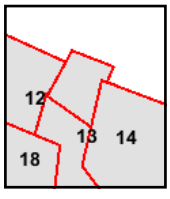
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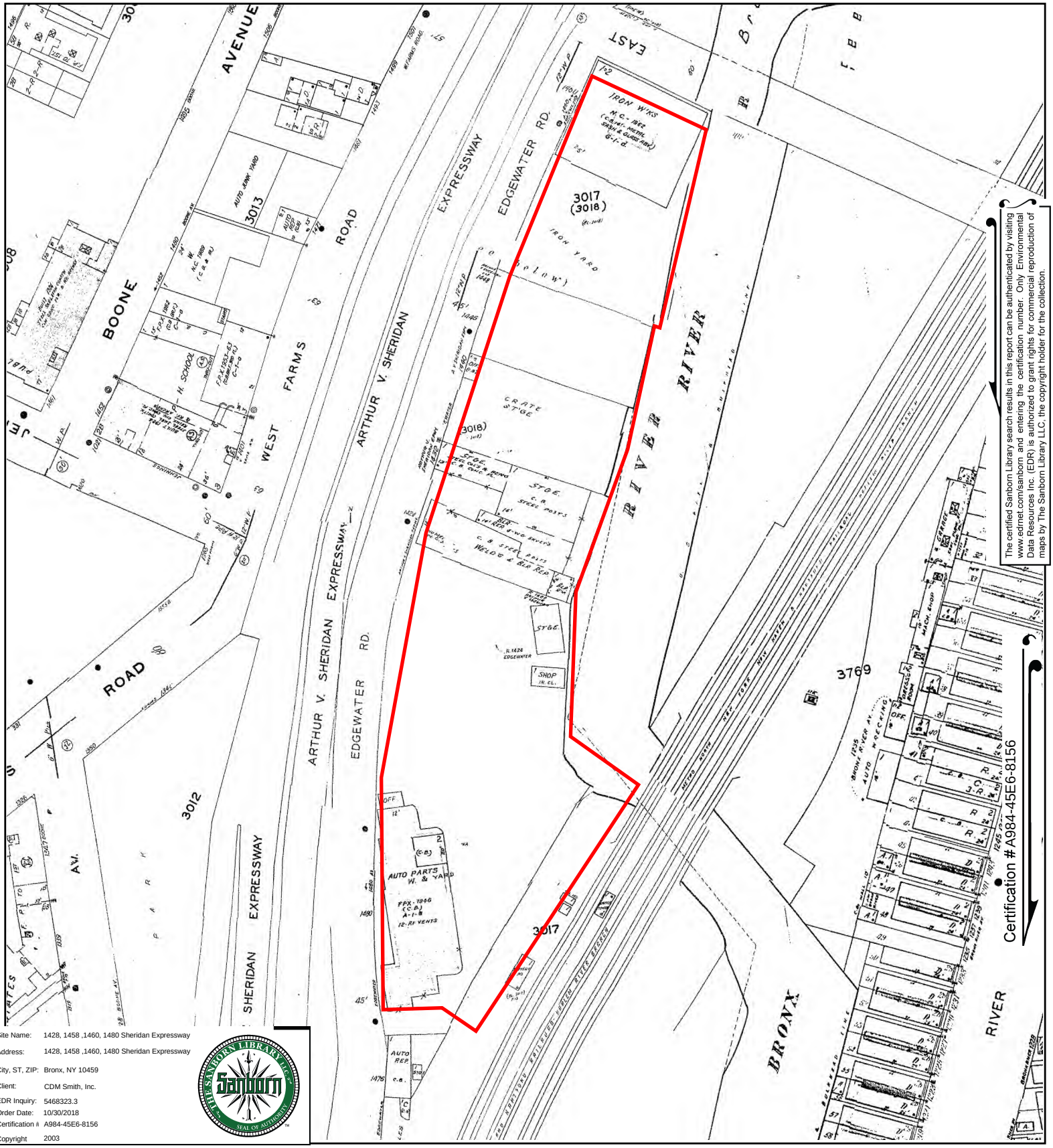
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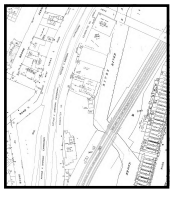


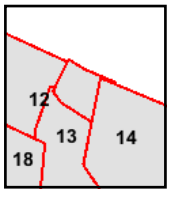
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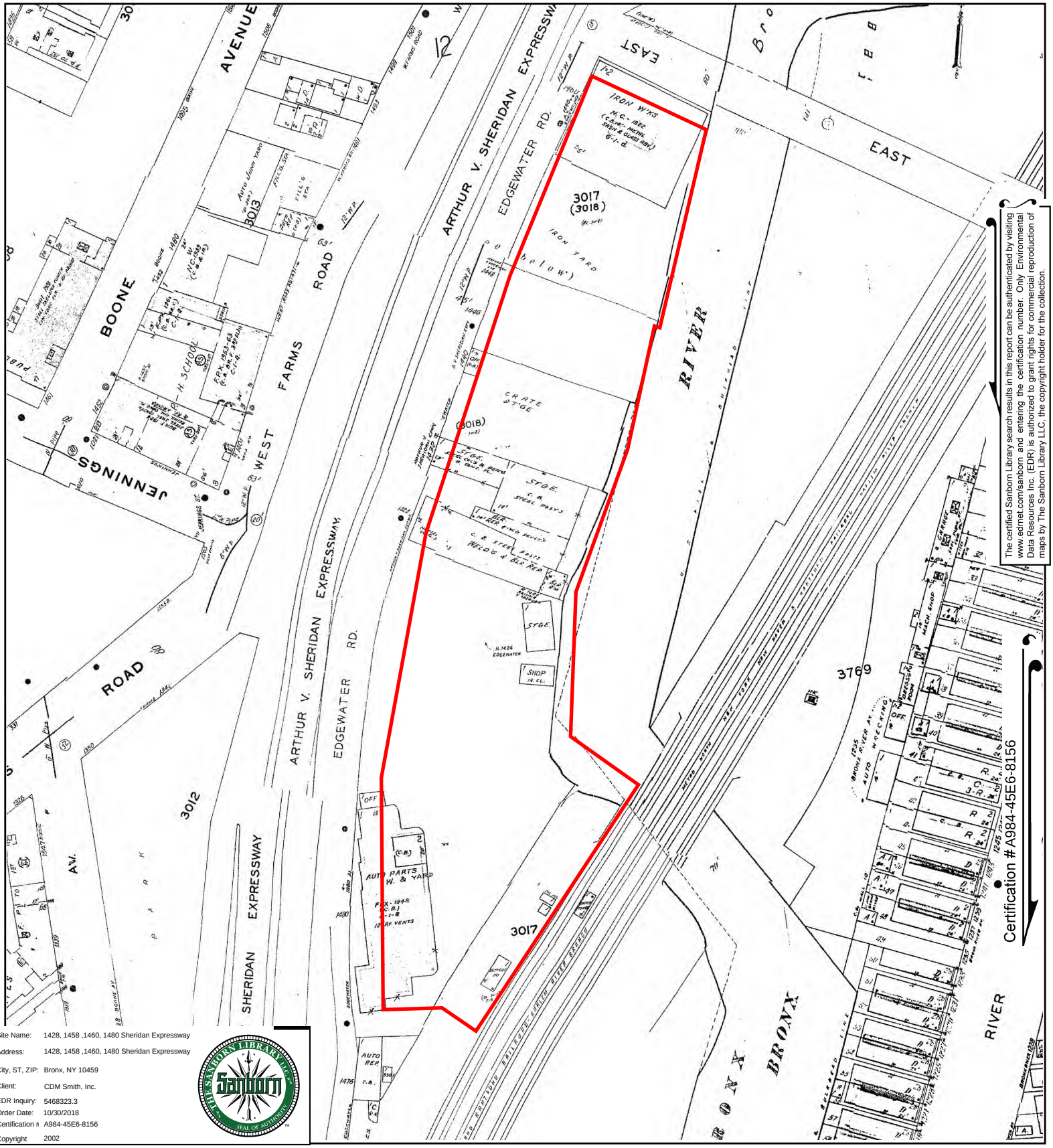
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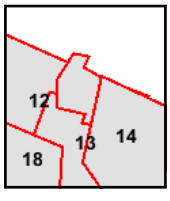
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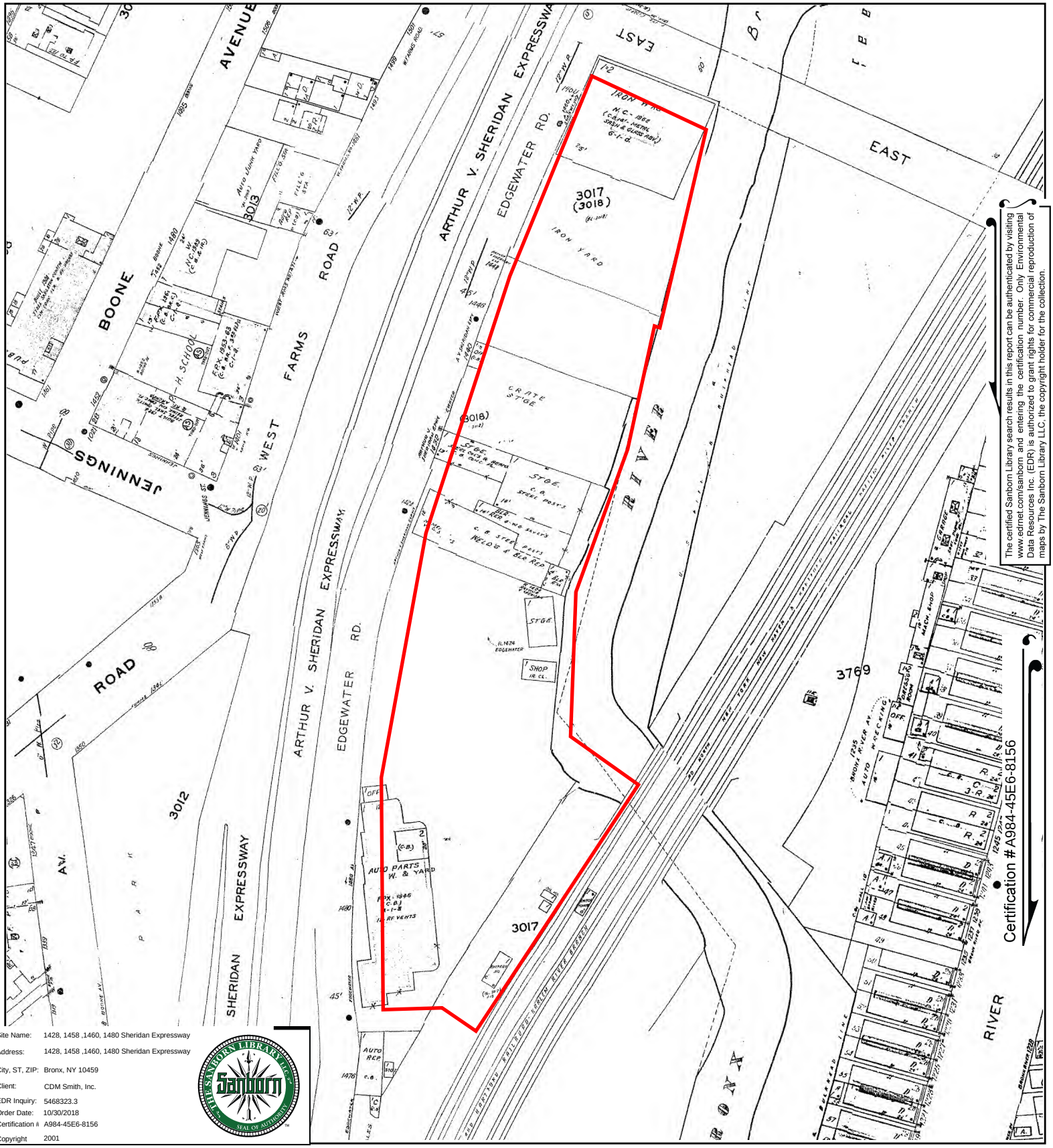
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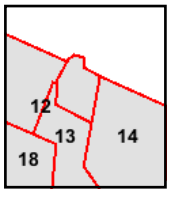


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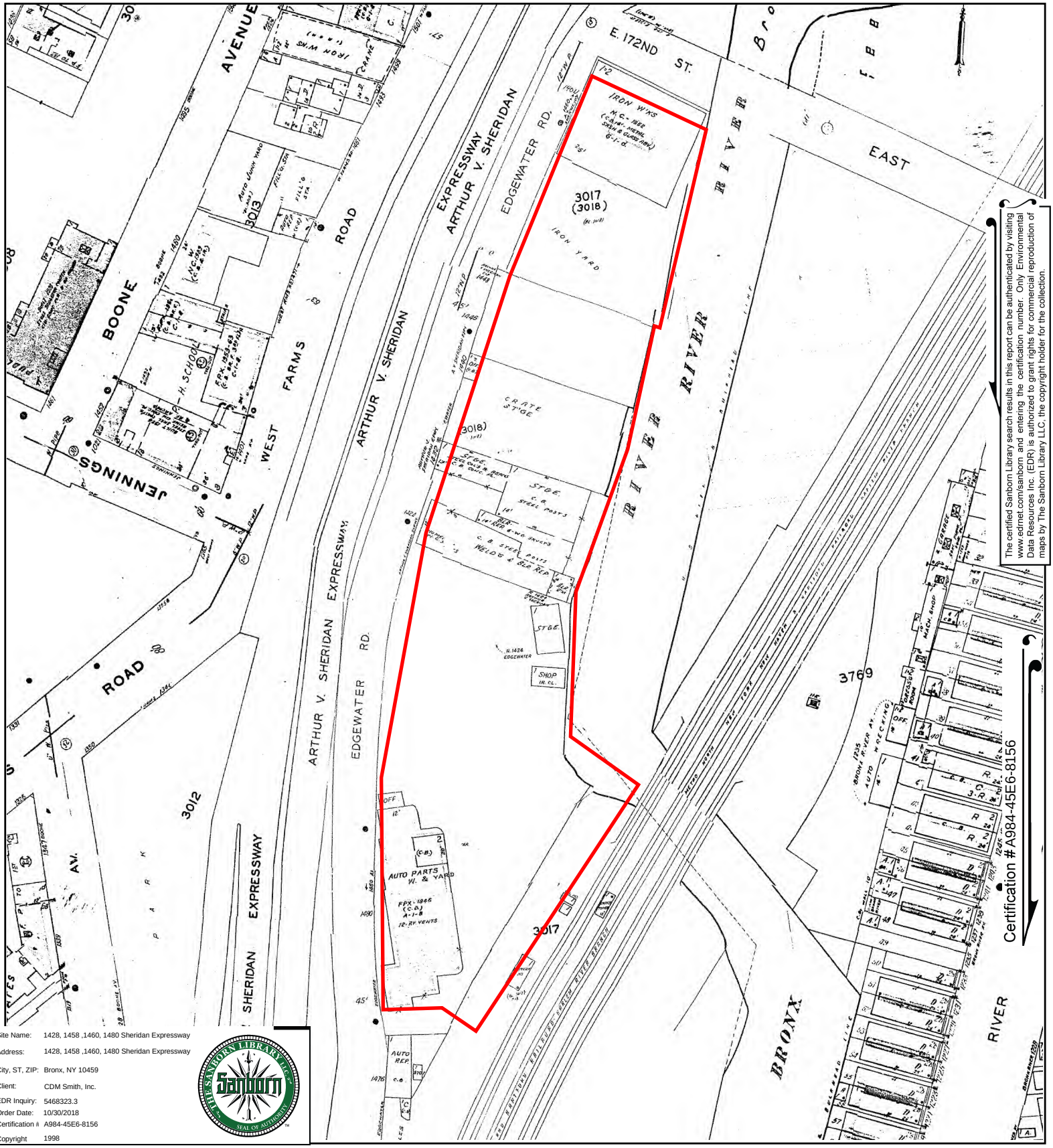




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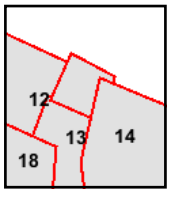
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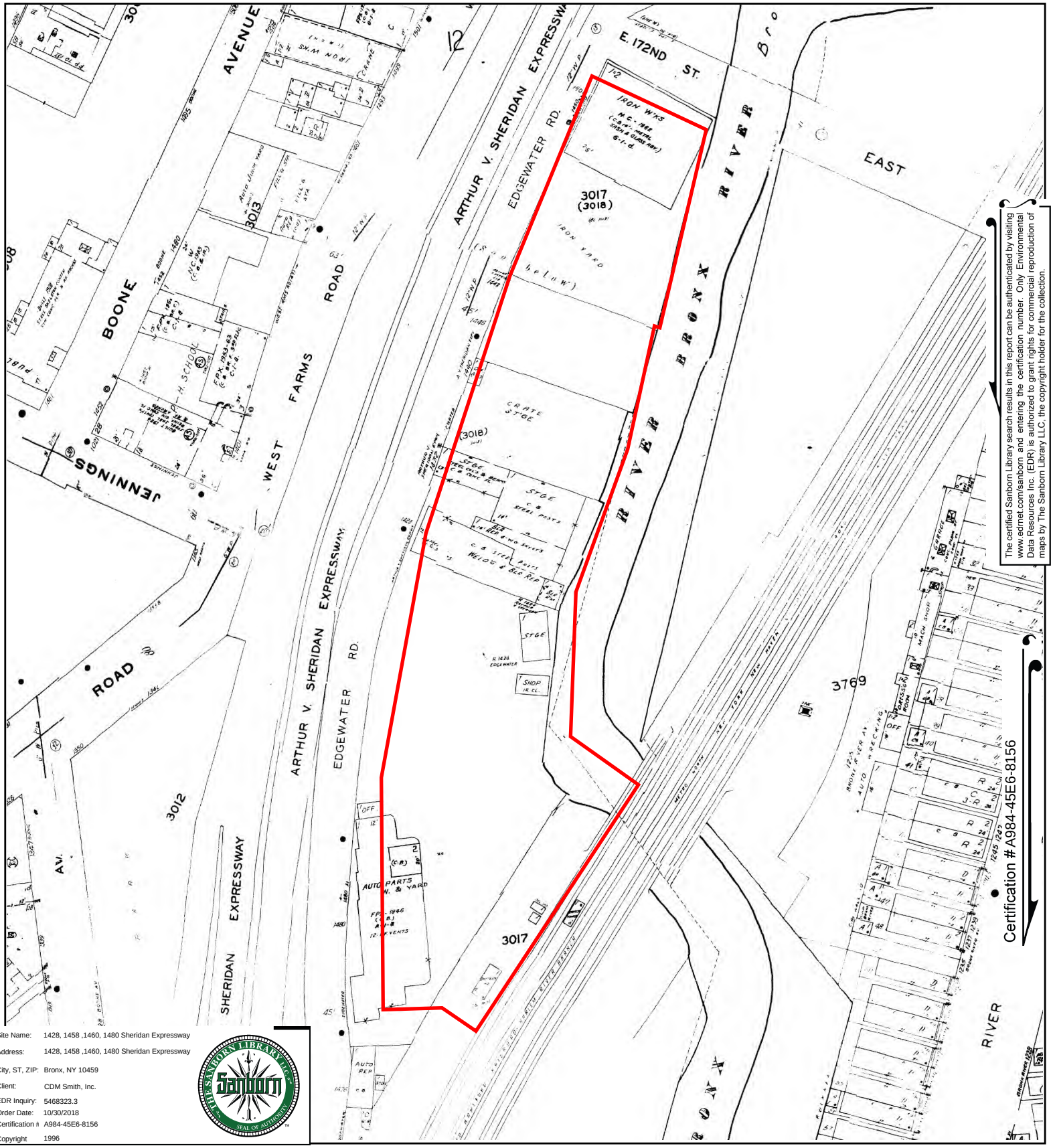
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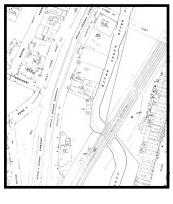


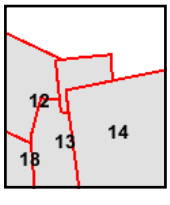
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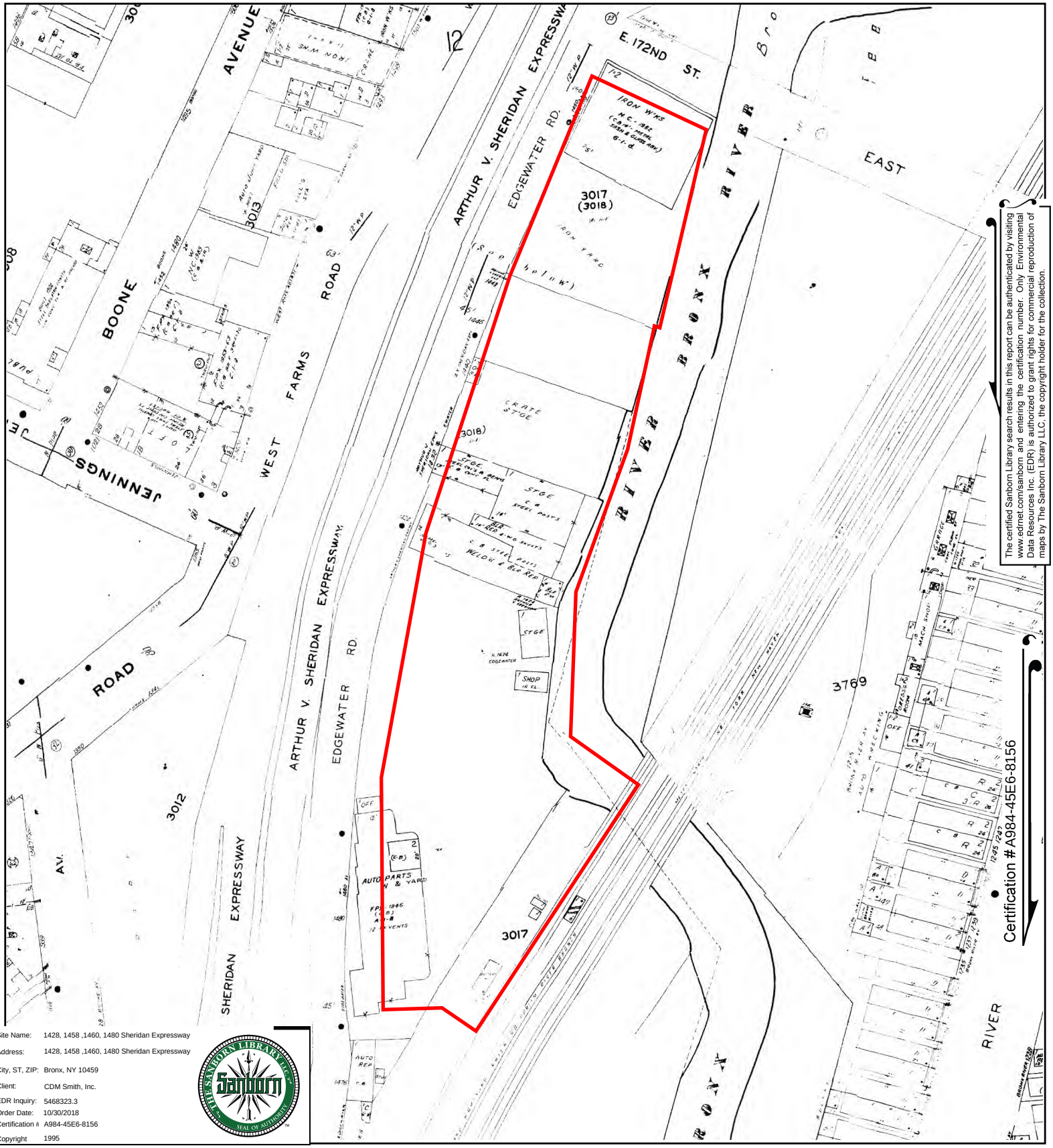
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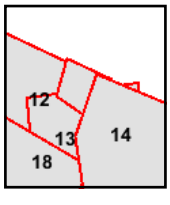


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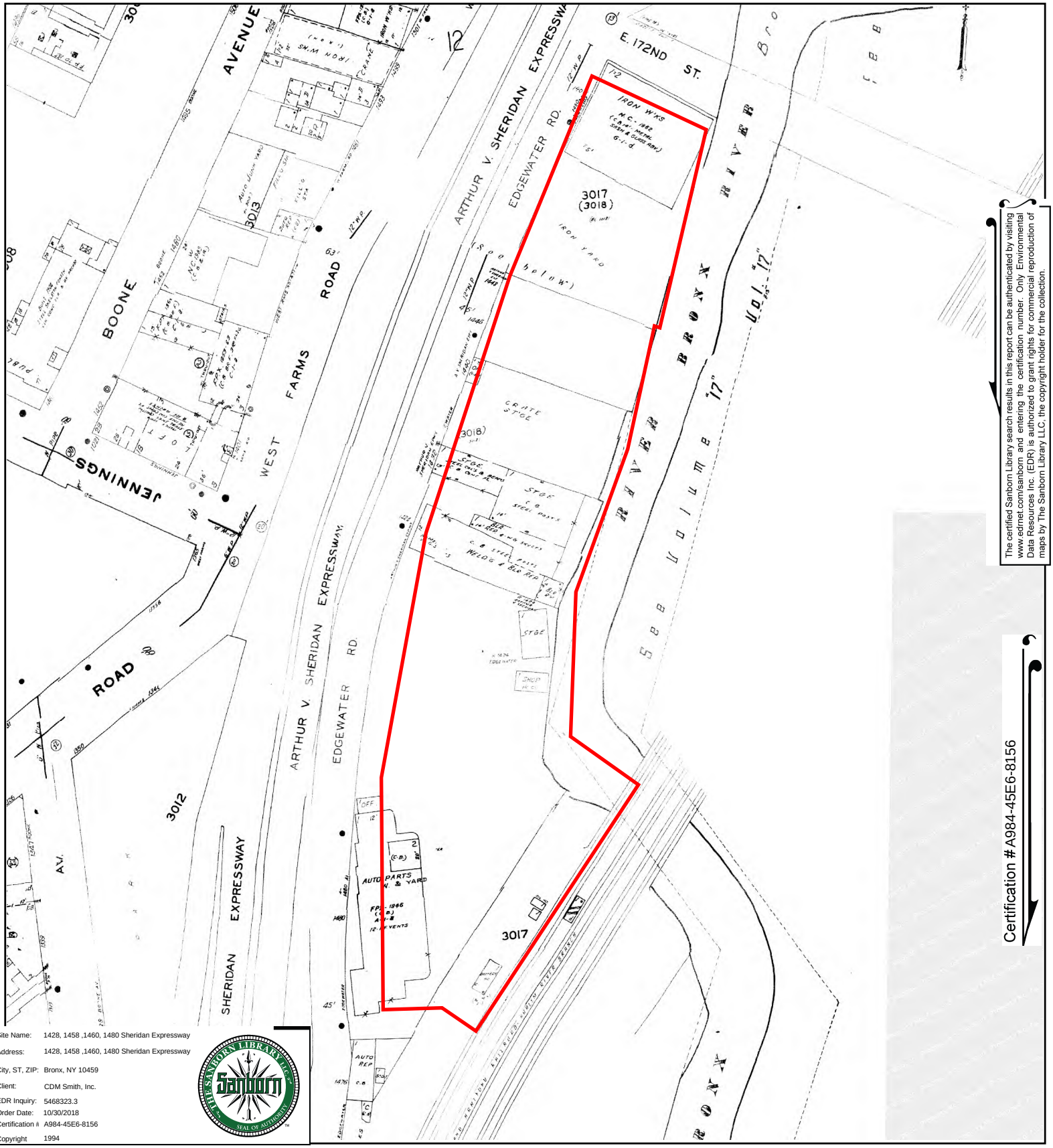




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Volume 16, Sheet 12
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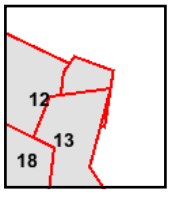
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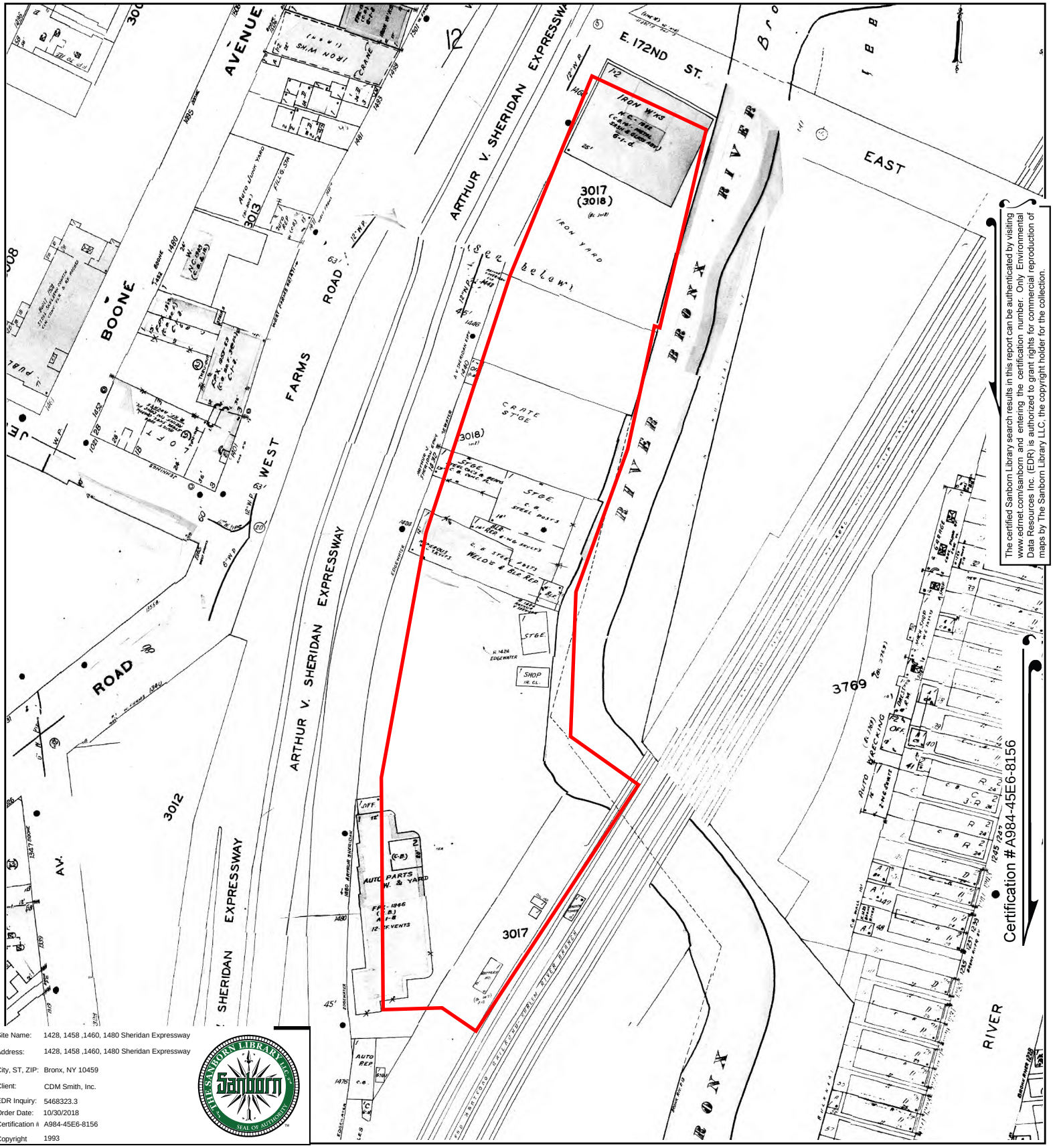




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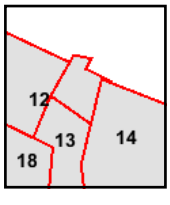
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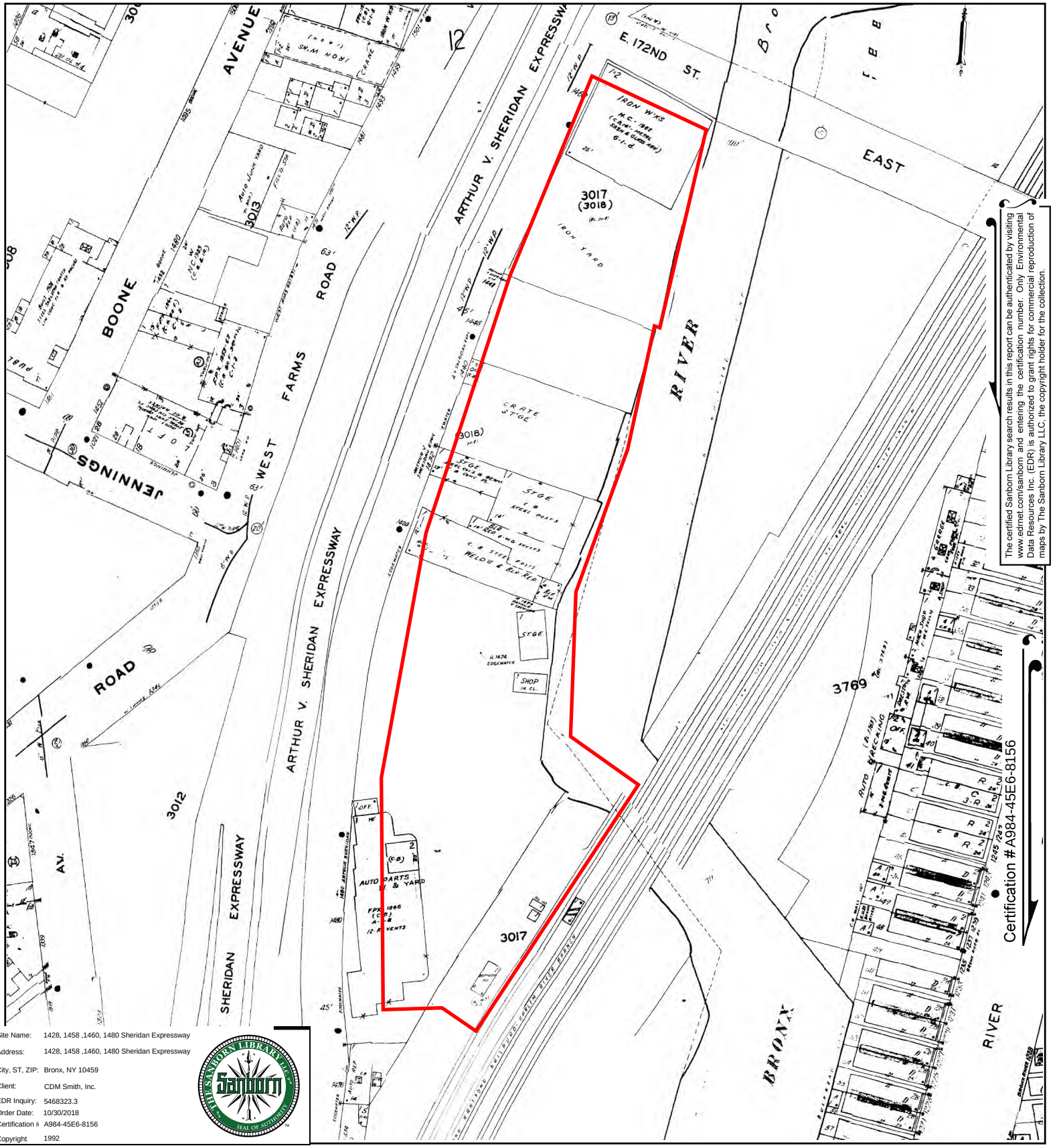
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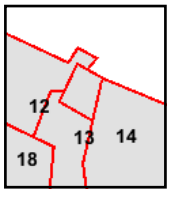
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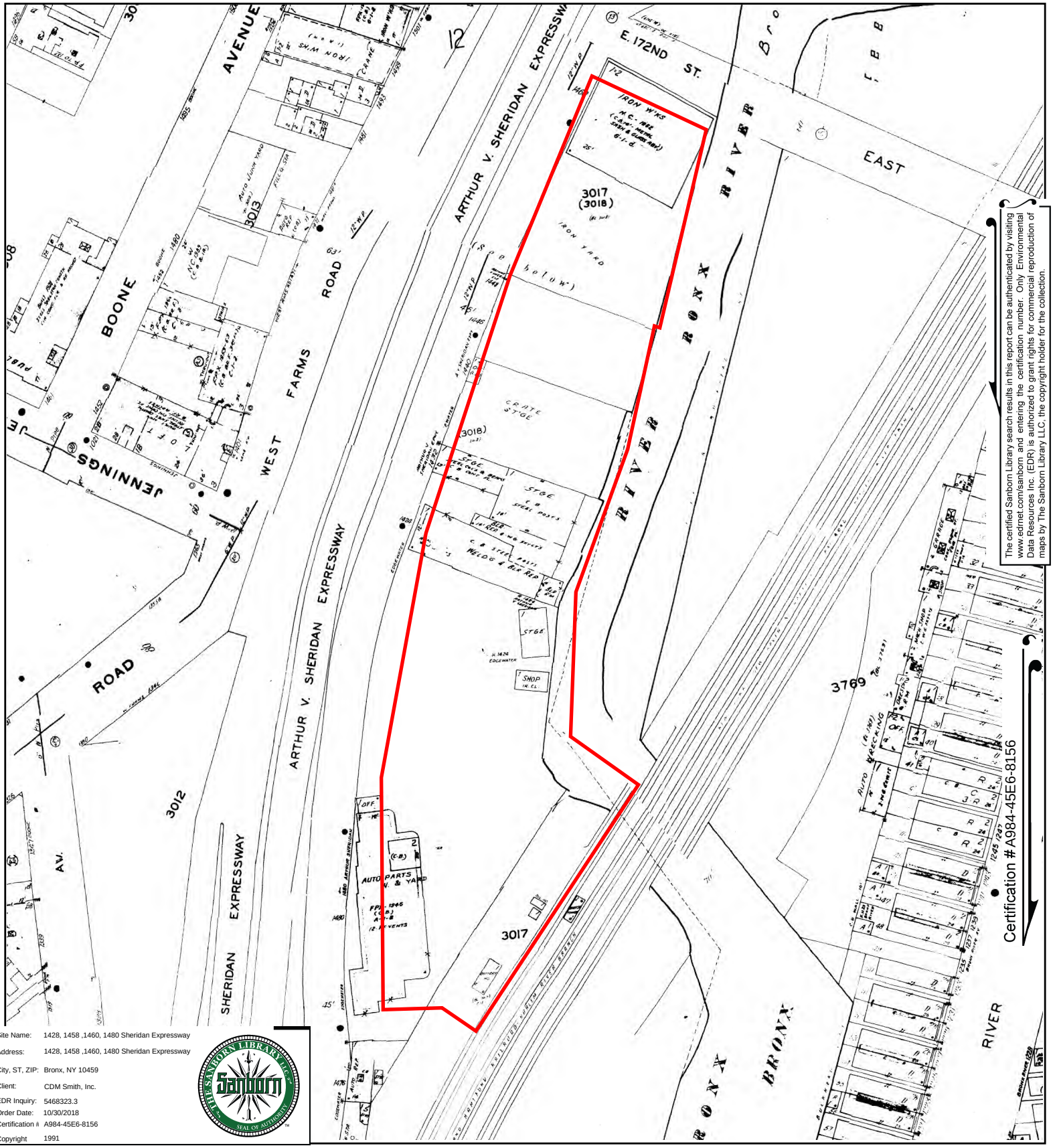
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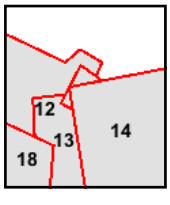
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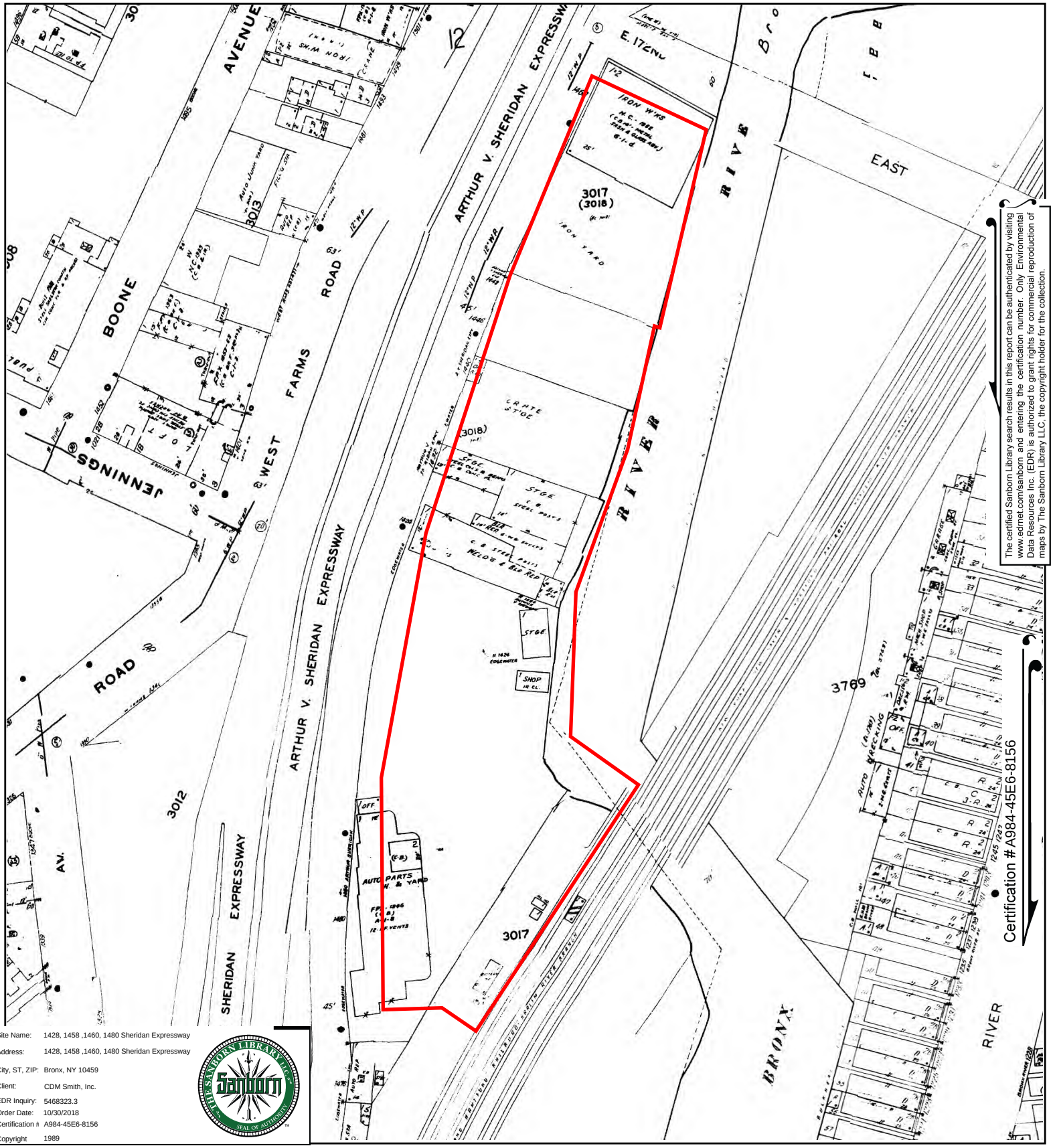
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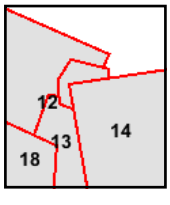
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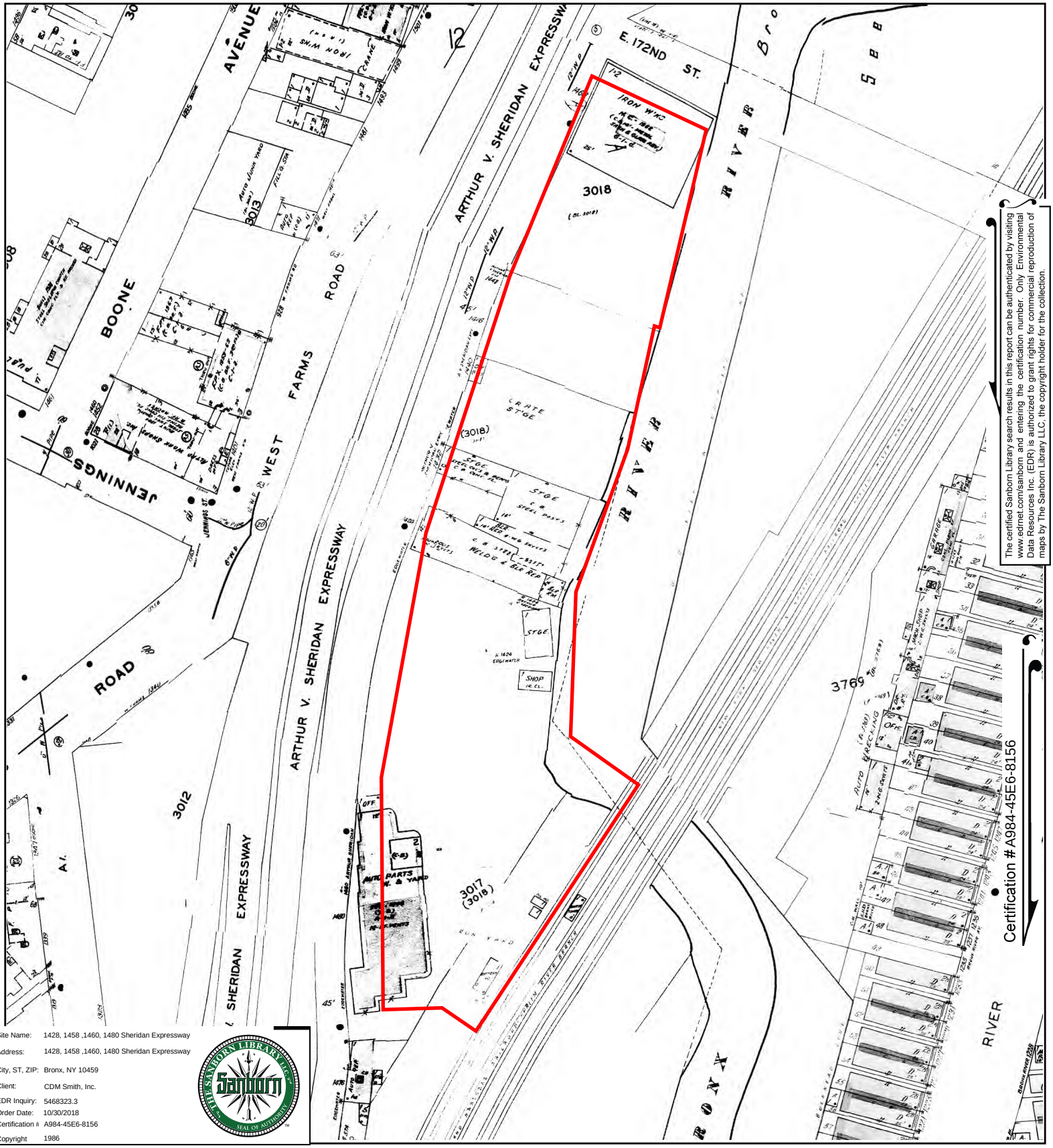
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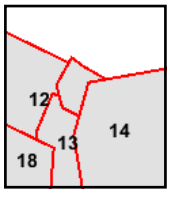


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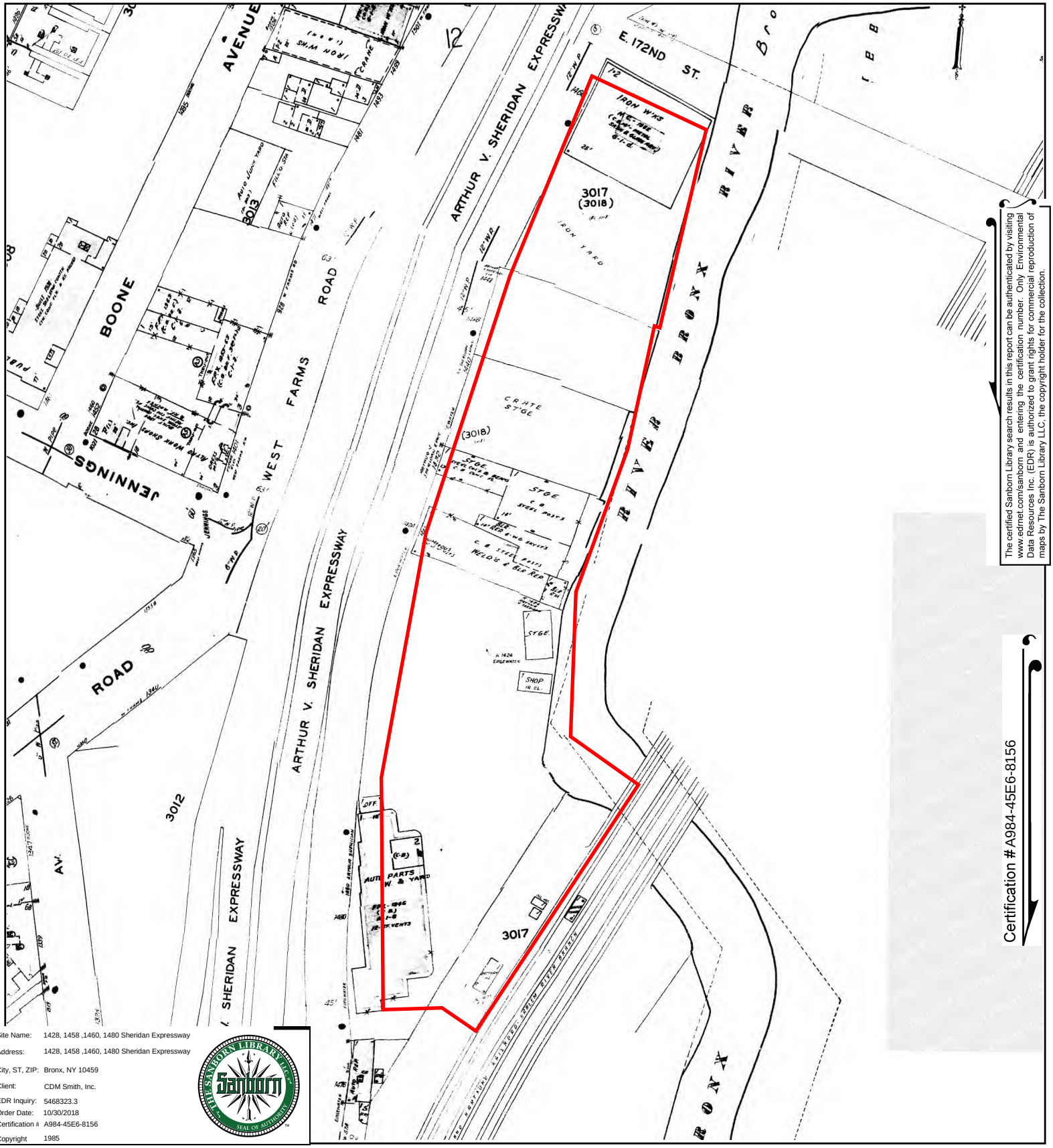
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1985

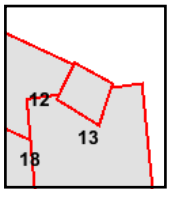


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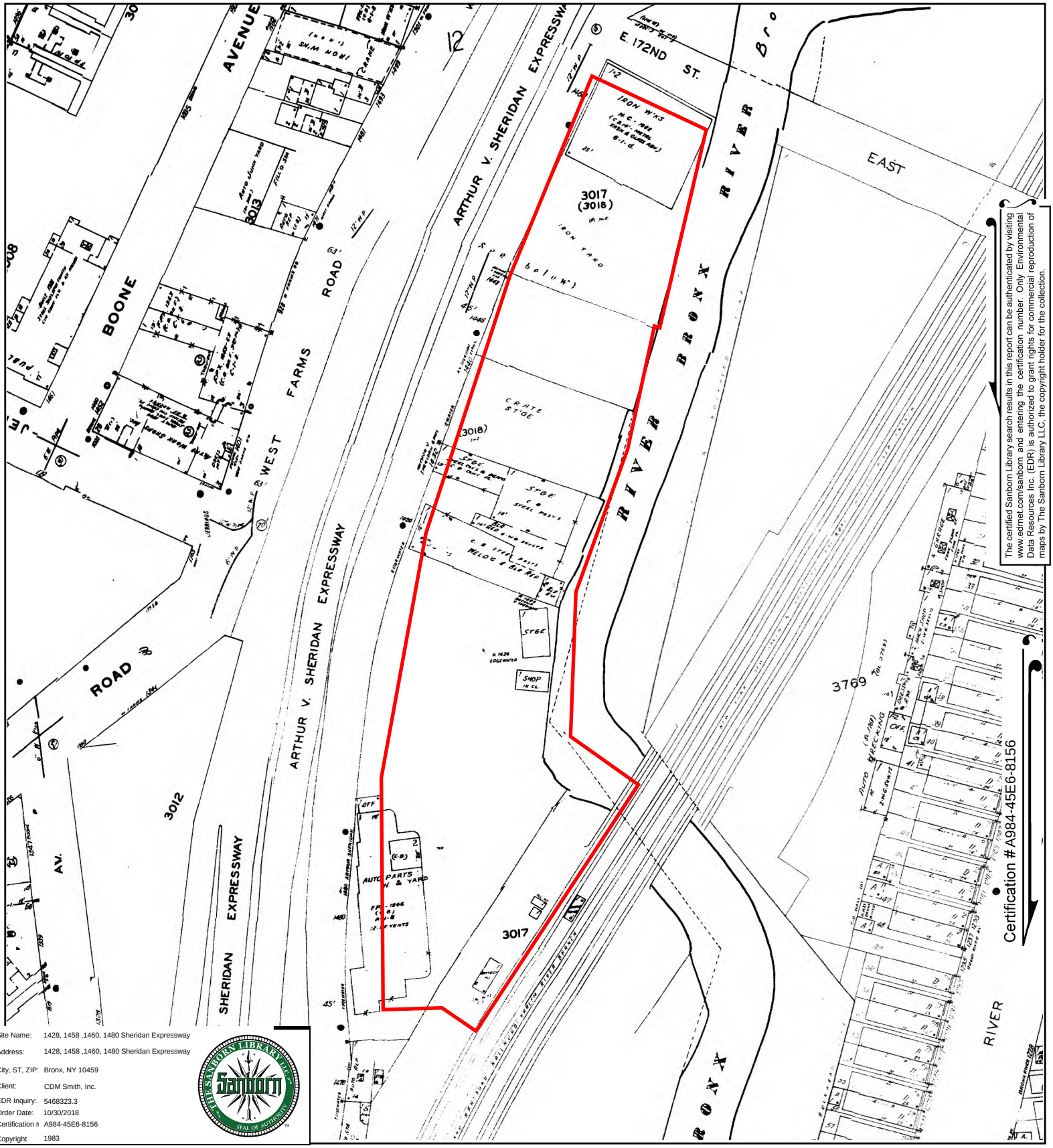




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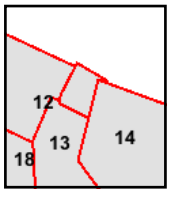
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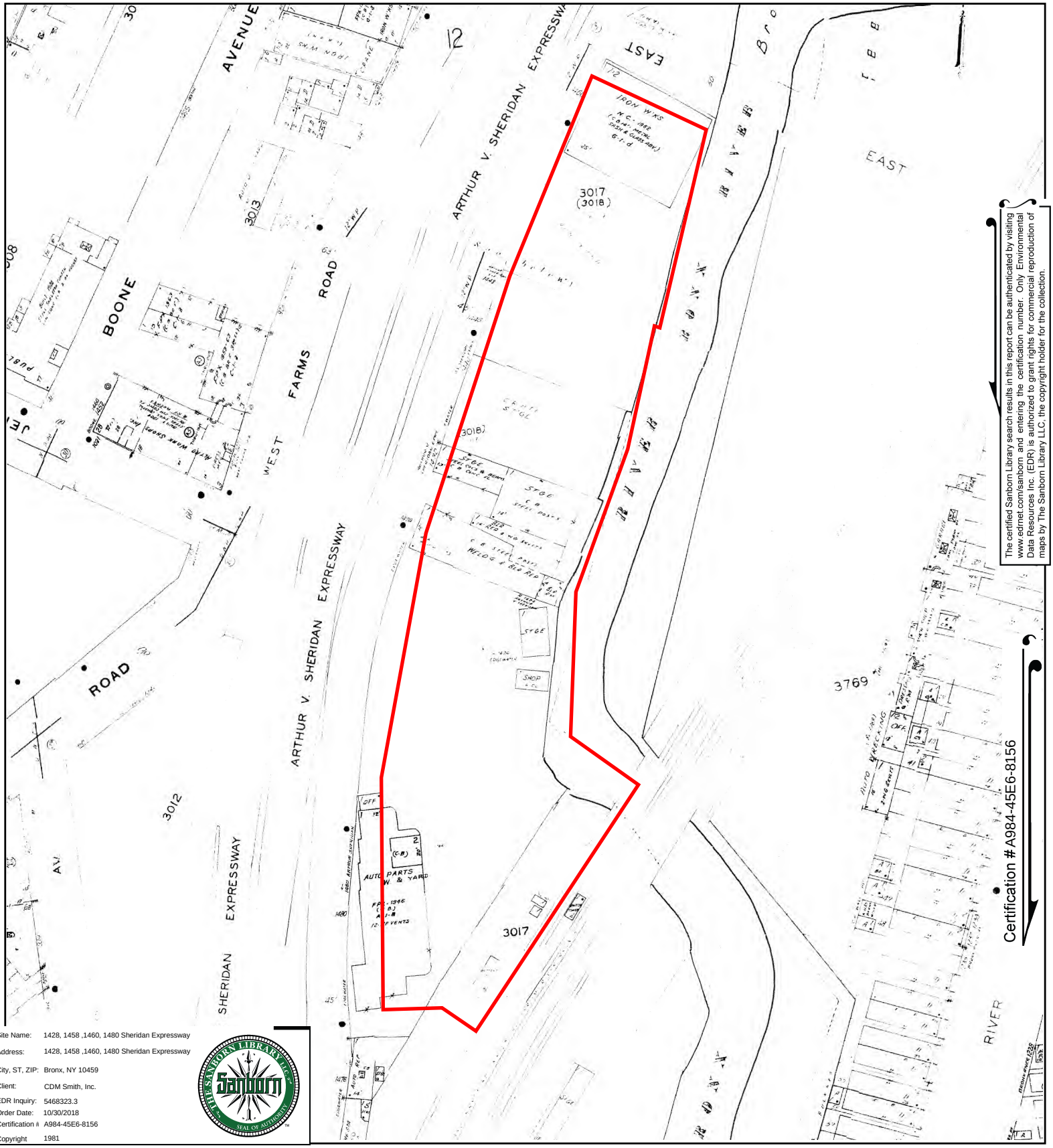
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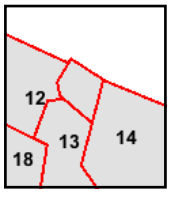
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Copyright	1981

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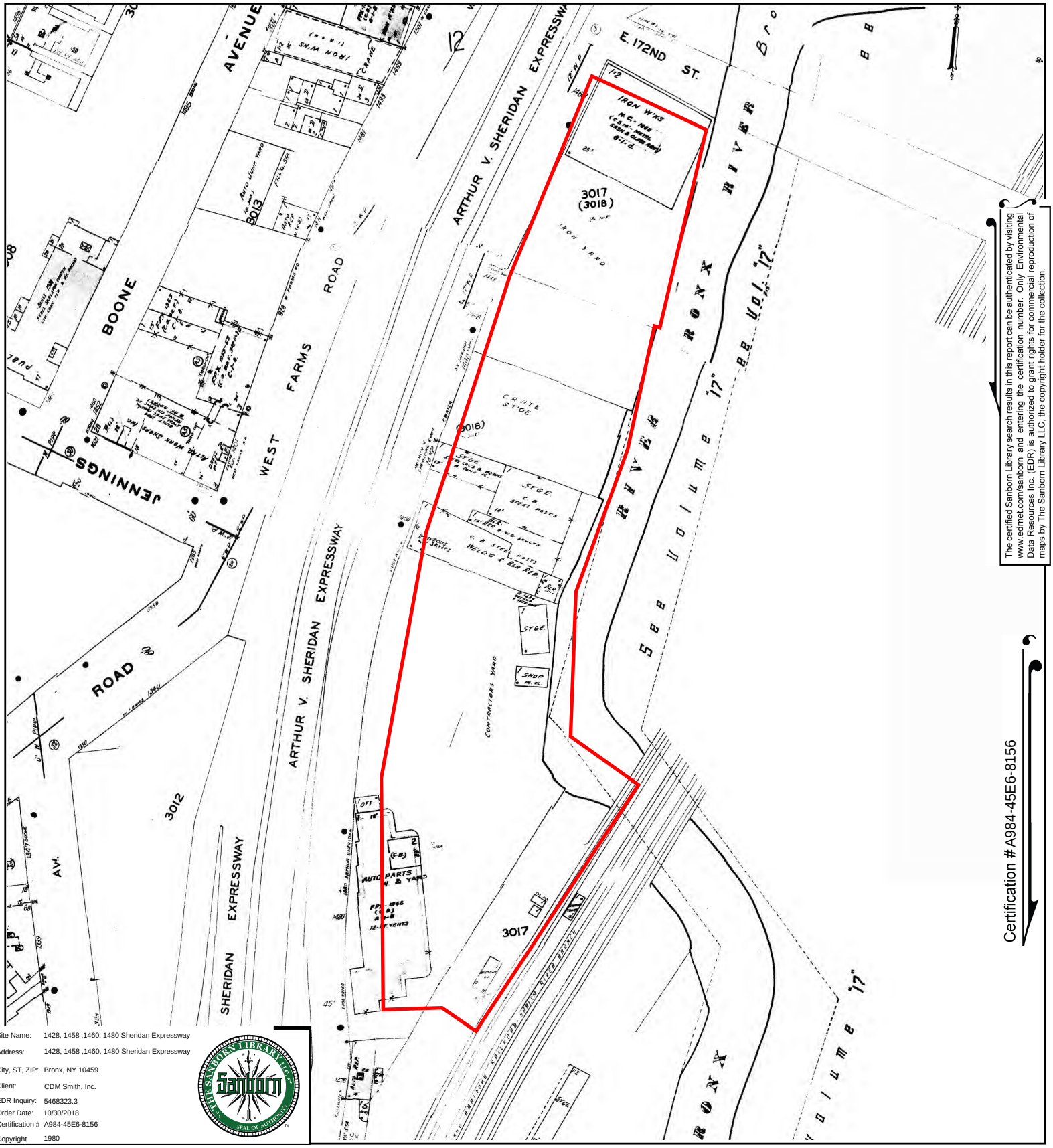




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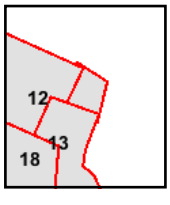
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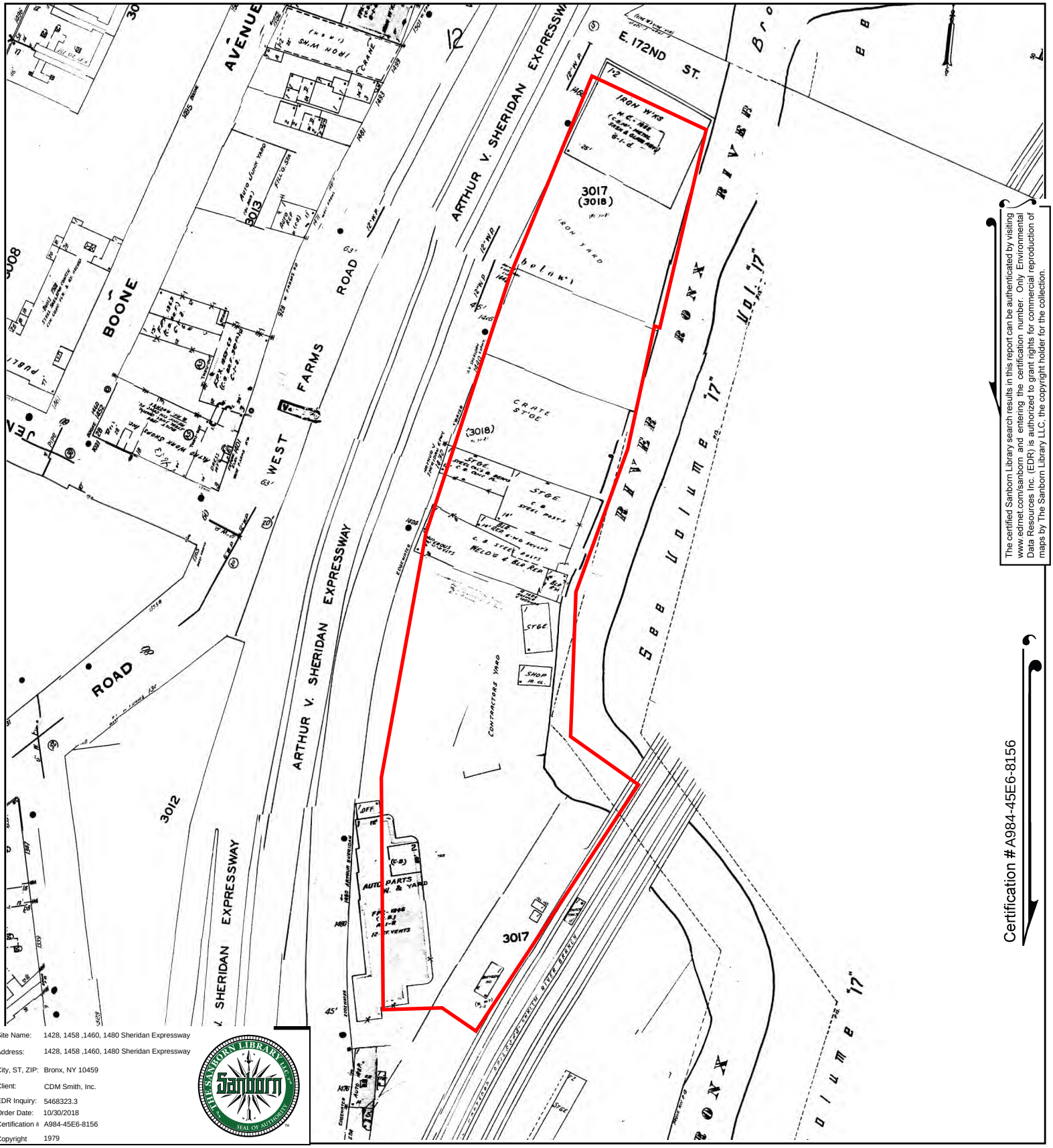




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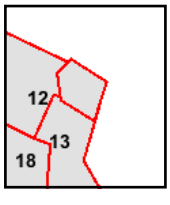
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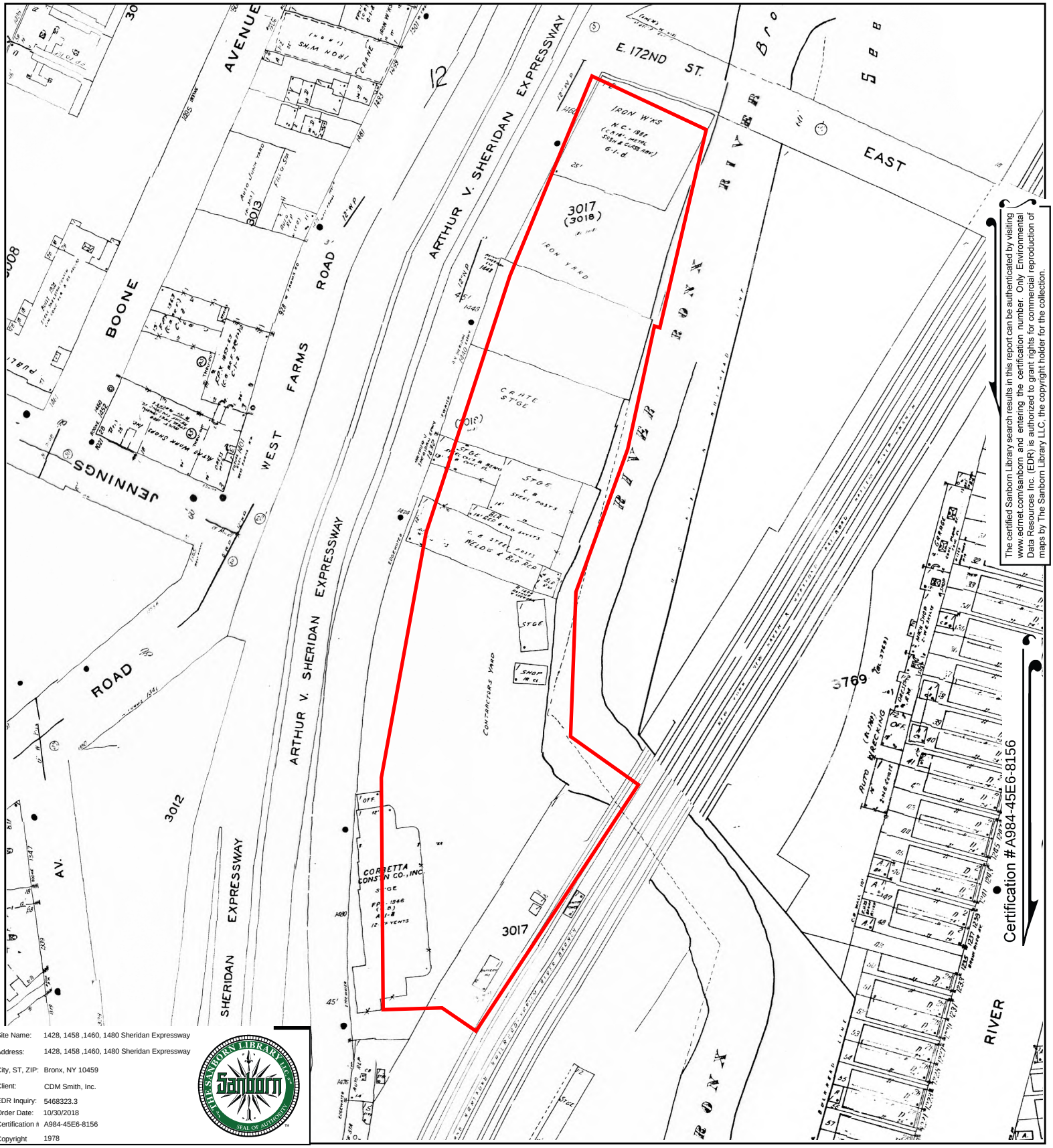




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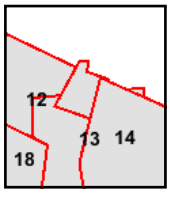


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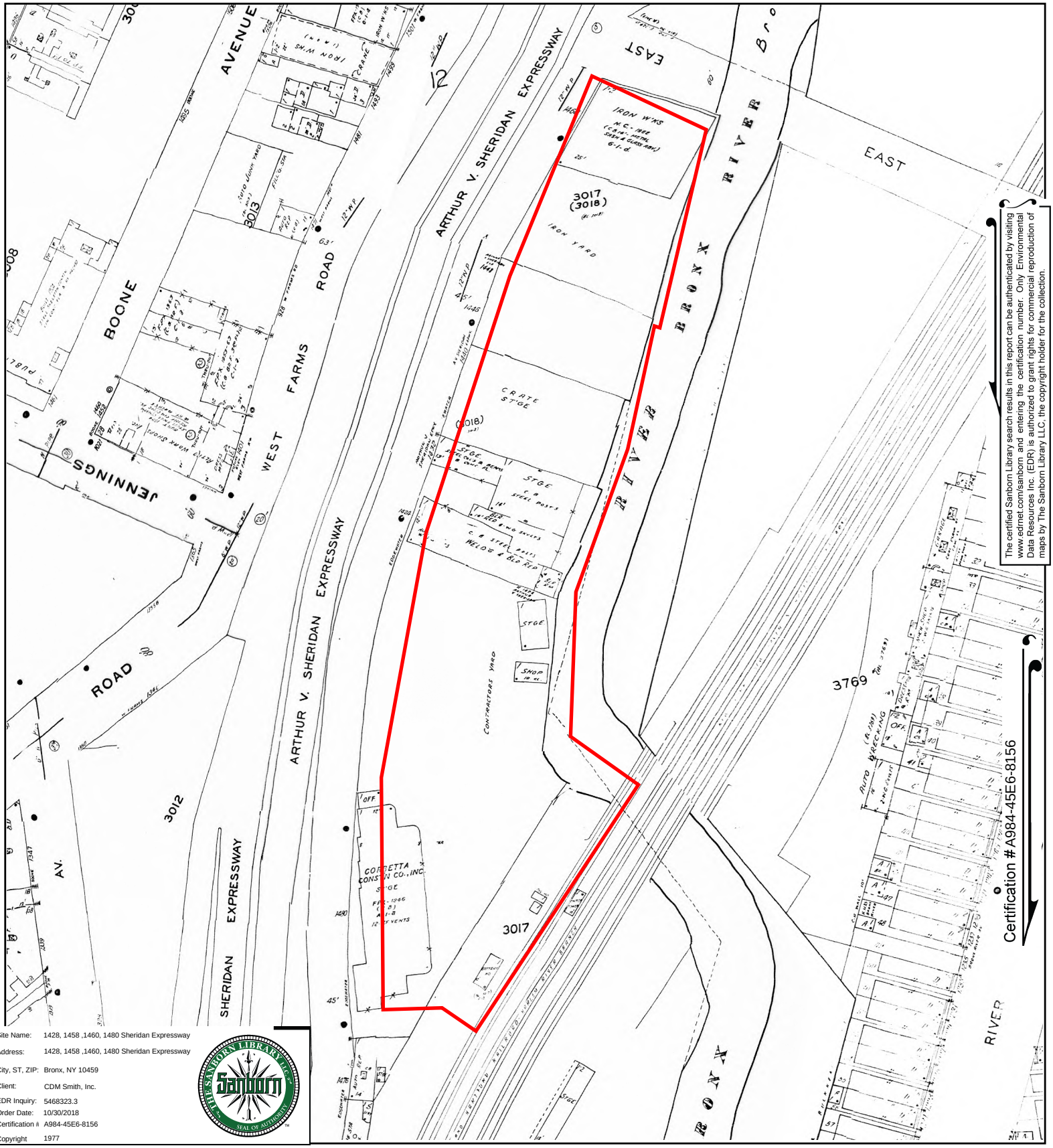




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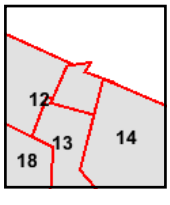
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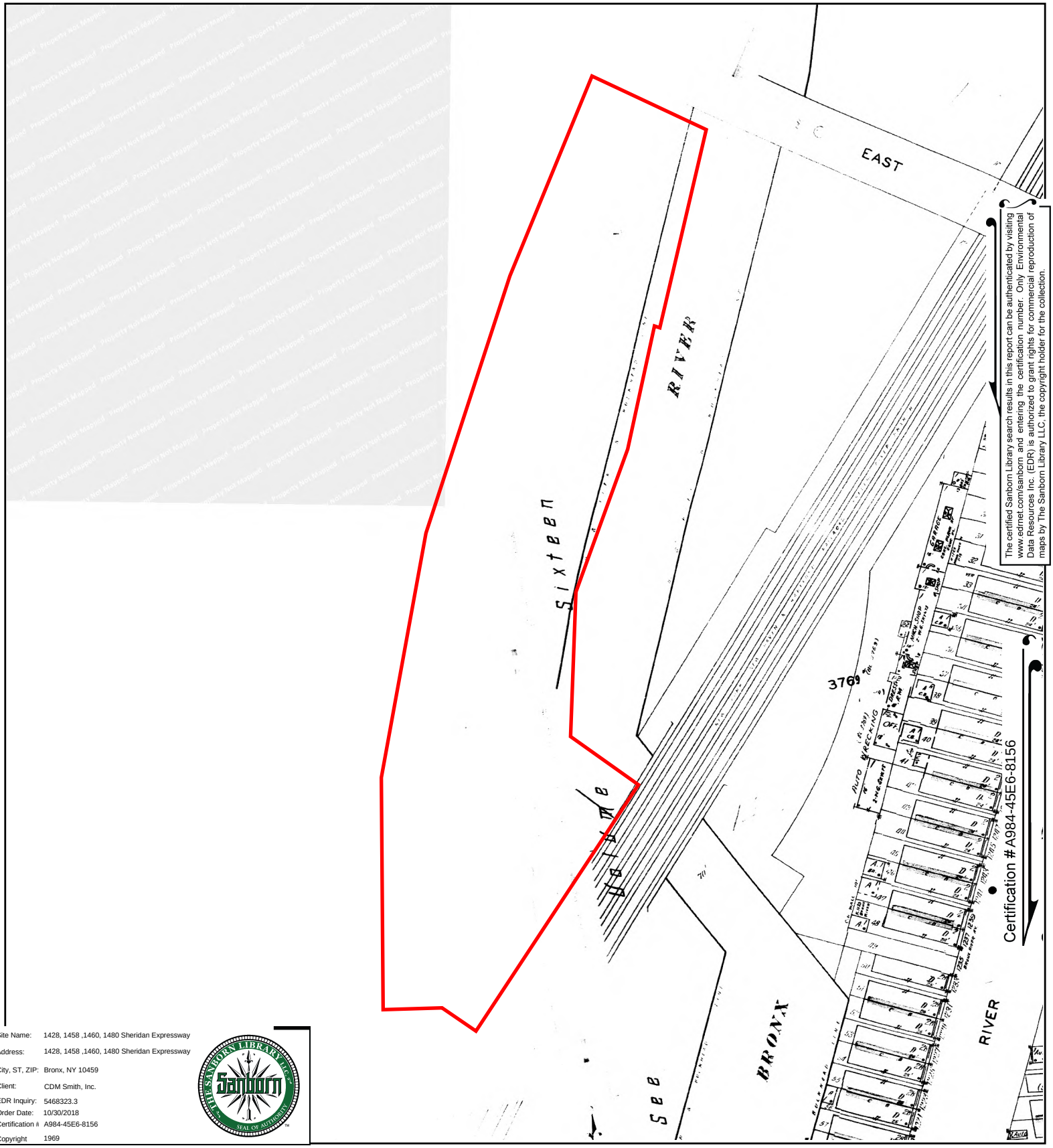
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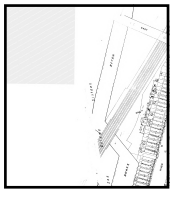
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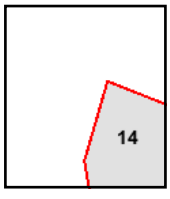


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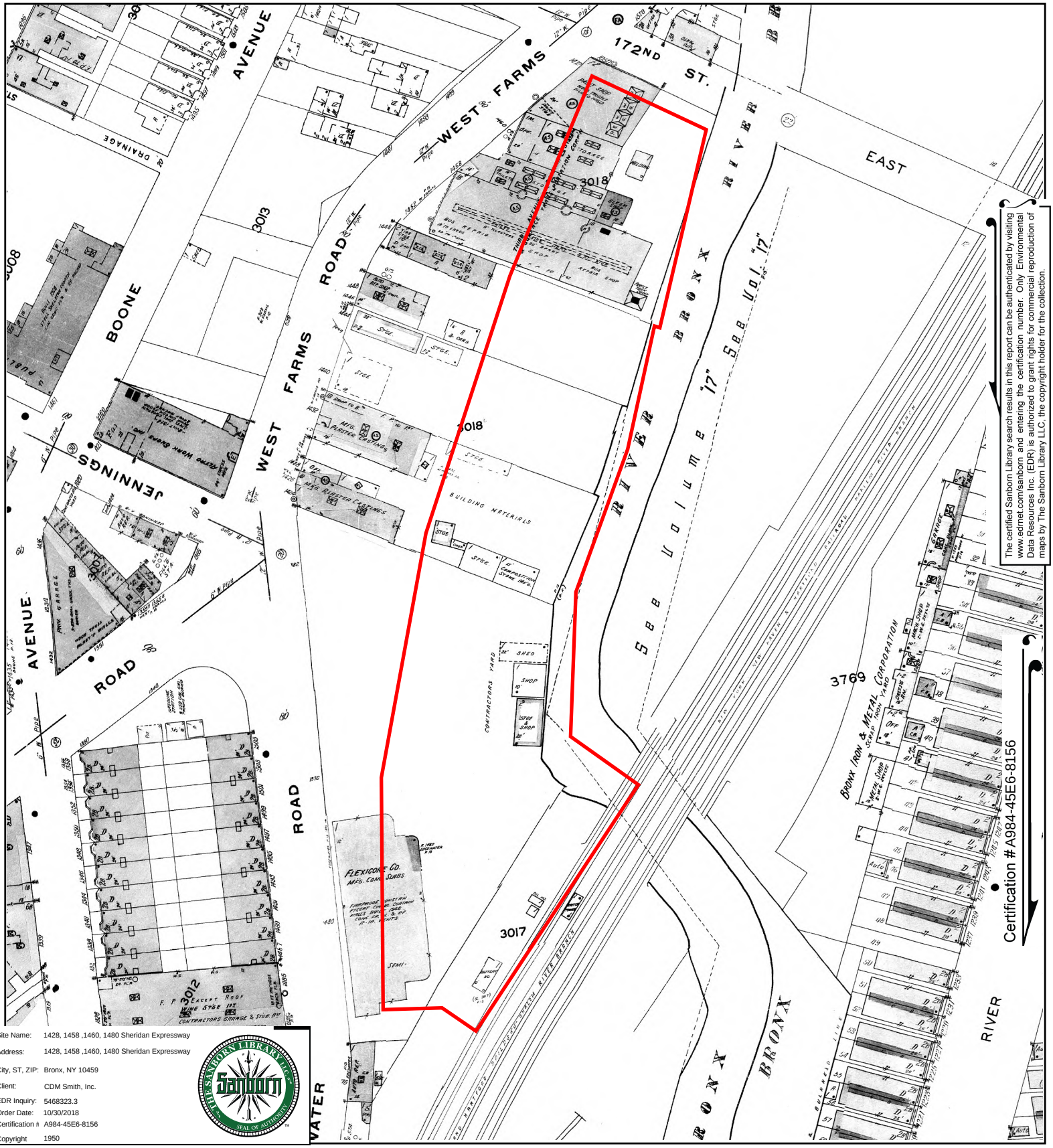
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1950

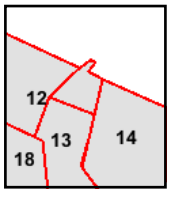


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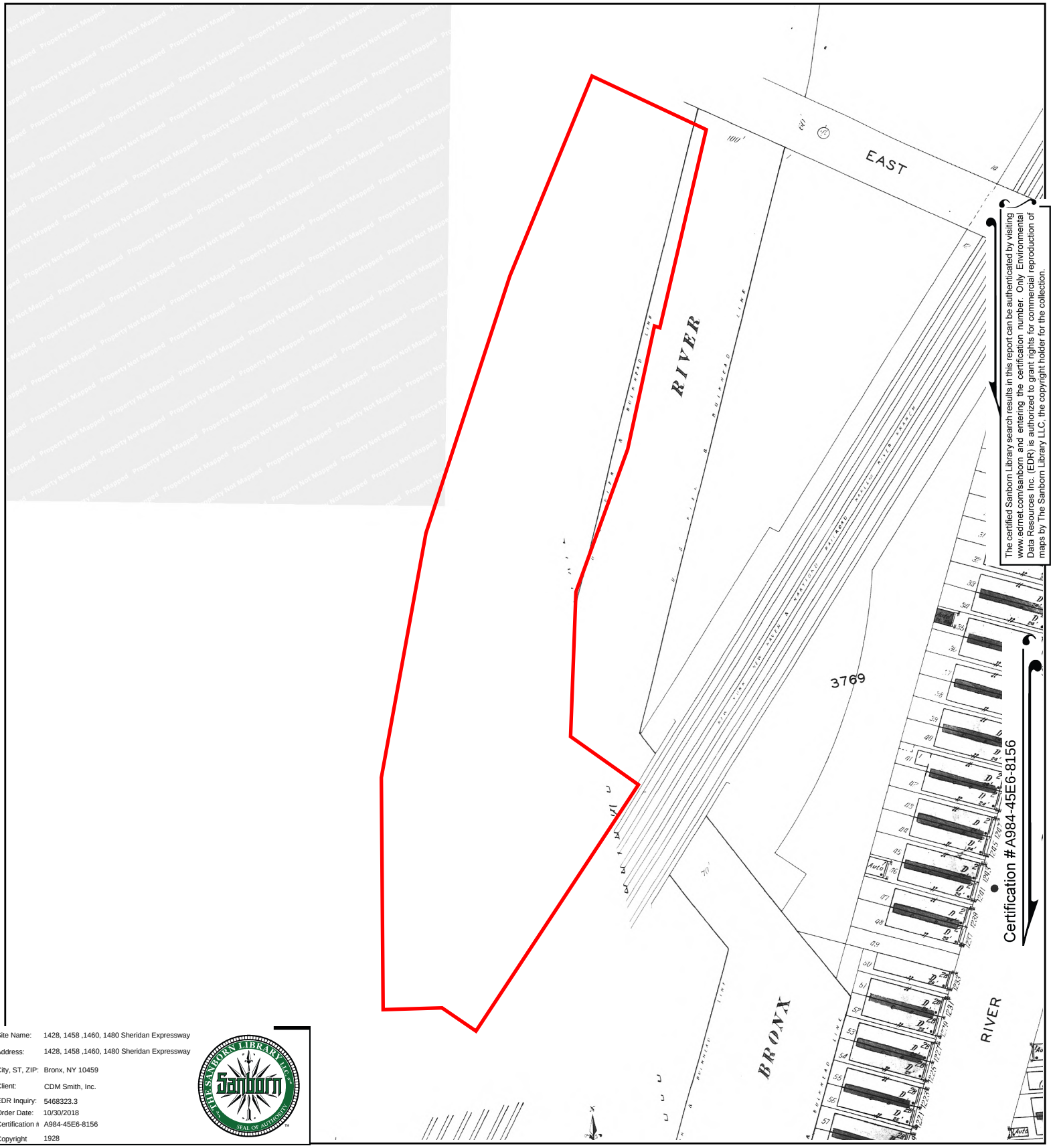




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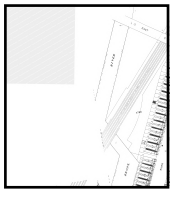
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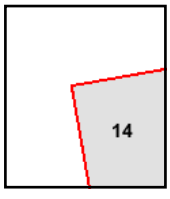
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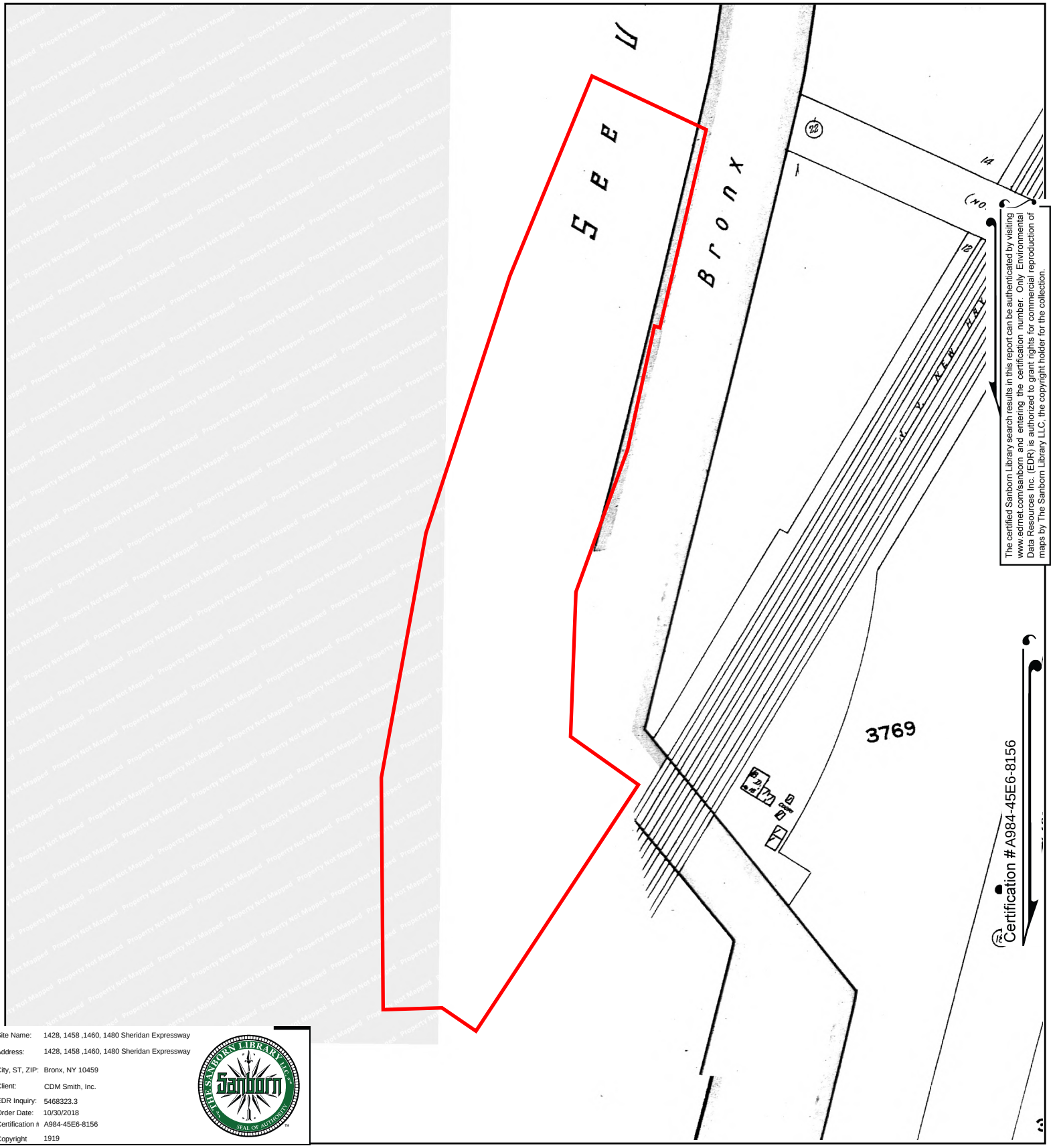
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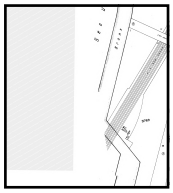
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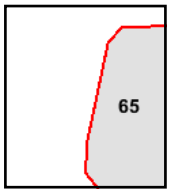


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Copyright	1919

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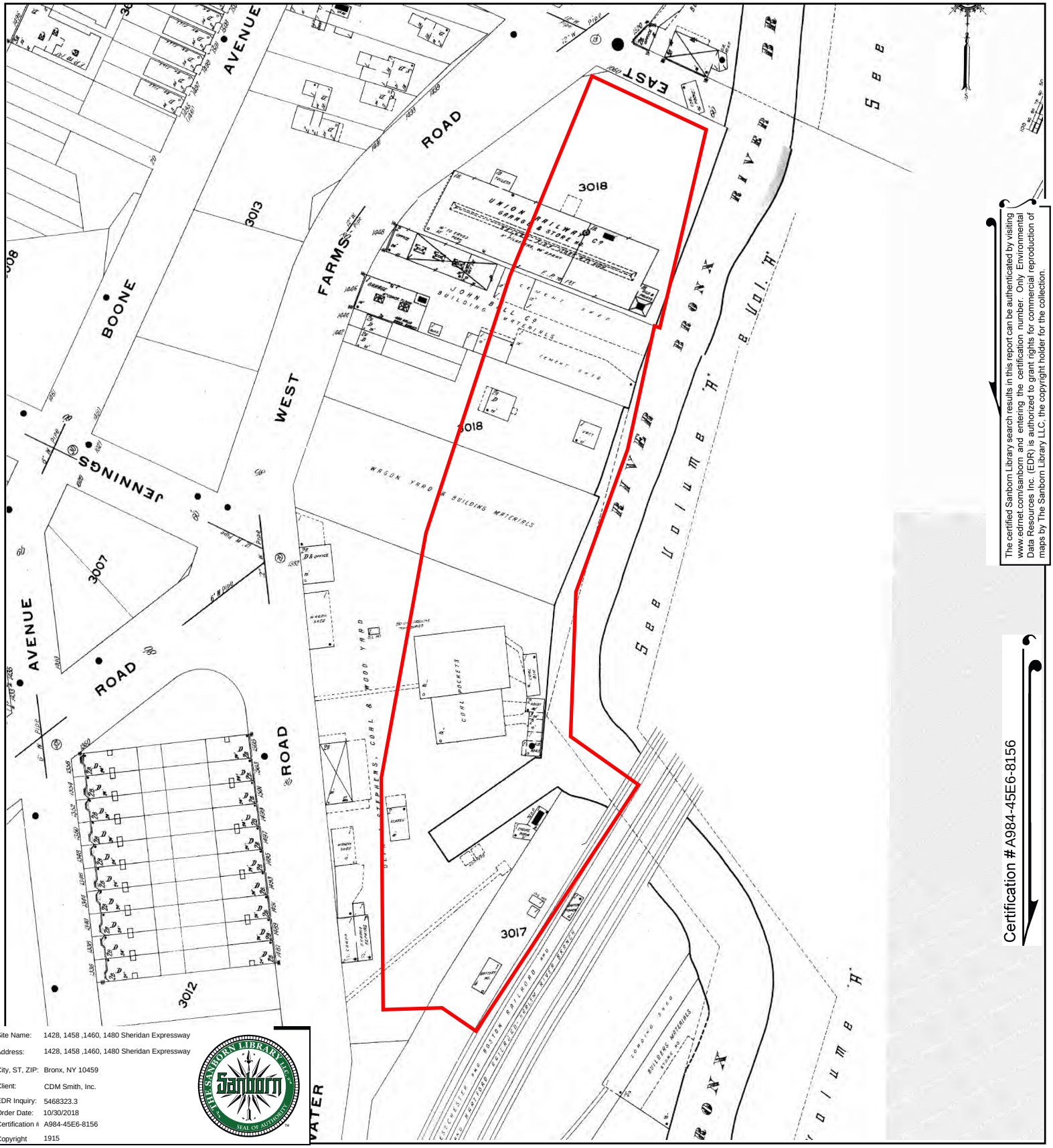




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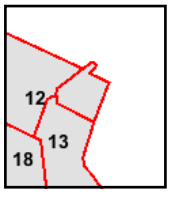
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Copyright	1915

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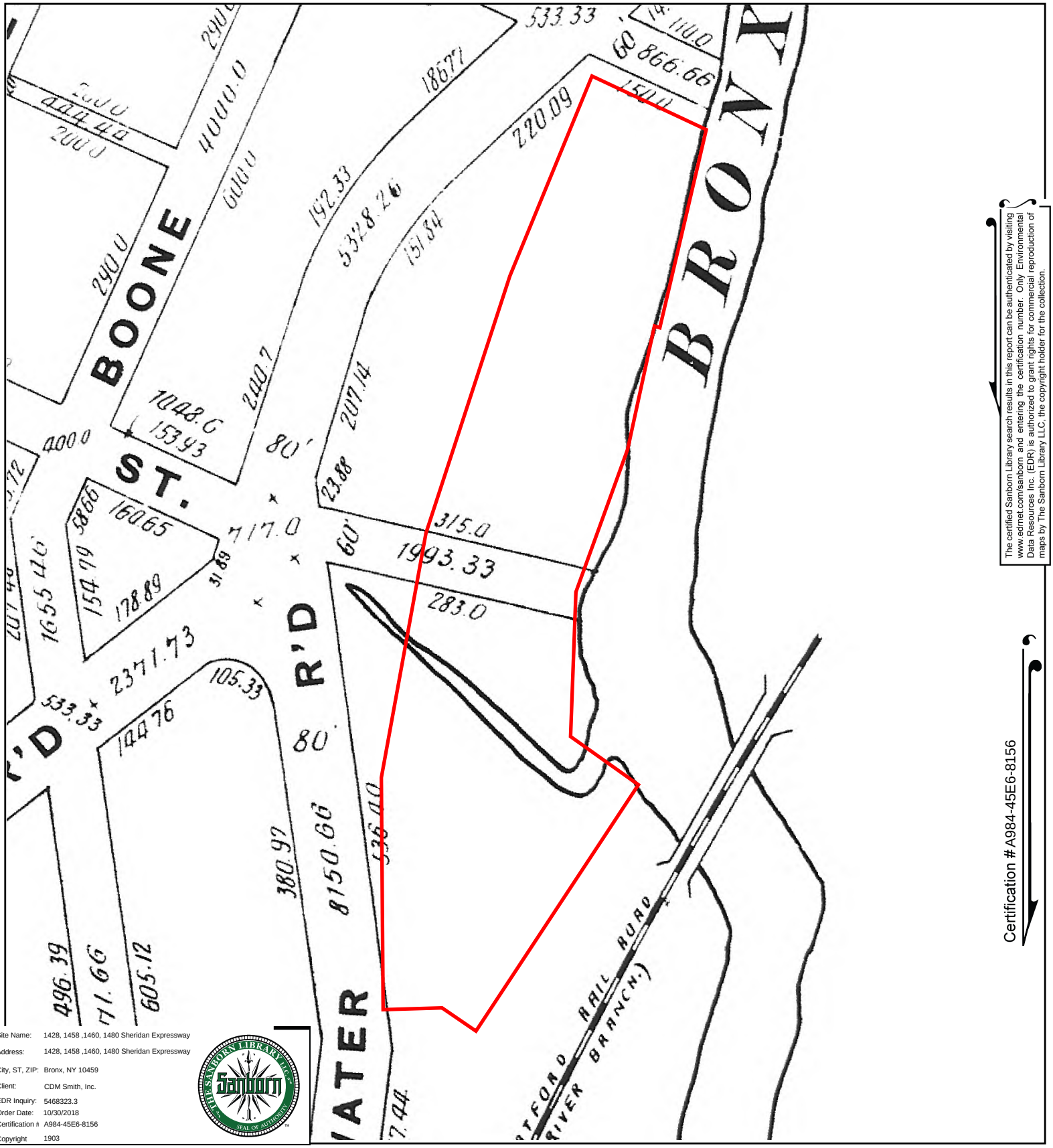




Volume 16, Sheet 18
Volume 16, Sheet 13
Volume 16, Sheet 12

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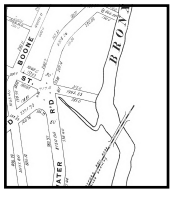
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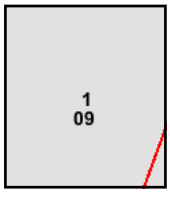
Certification #A984-45E6-8156

Site Name:	1428, 1458 ,1460, 1480 Sheridan Expressway
Address:	1428, 1458 ,1460, 1480 Sheridan Expressway
City, ST, ZIP:	Bronx, NY 10459
Client:	CDM Smith, Inc.
EDR Inquiry:	5468323.3
Order Date:	10/30/2018
Certification #:	A984-45E6-8156
Copyright	1903

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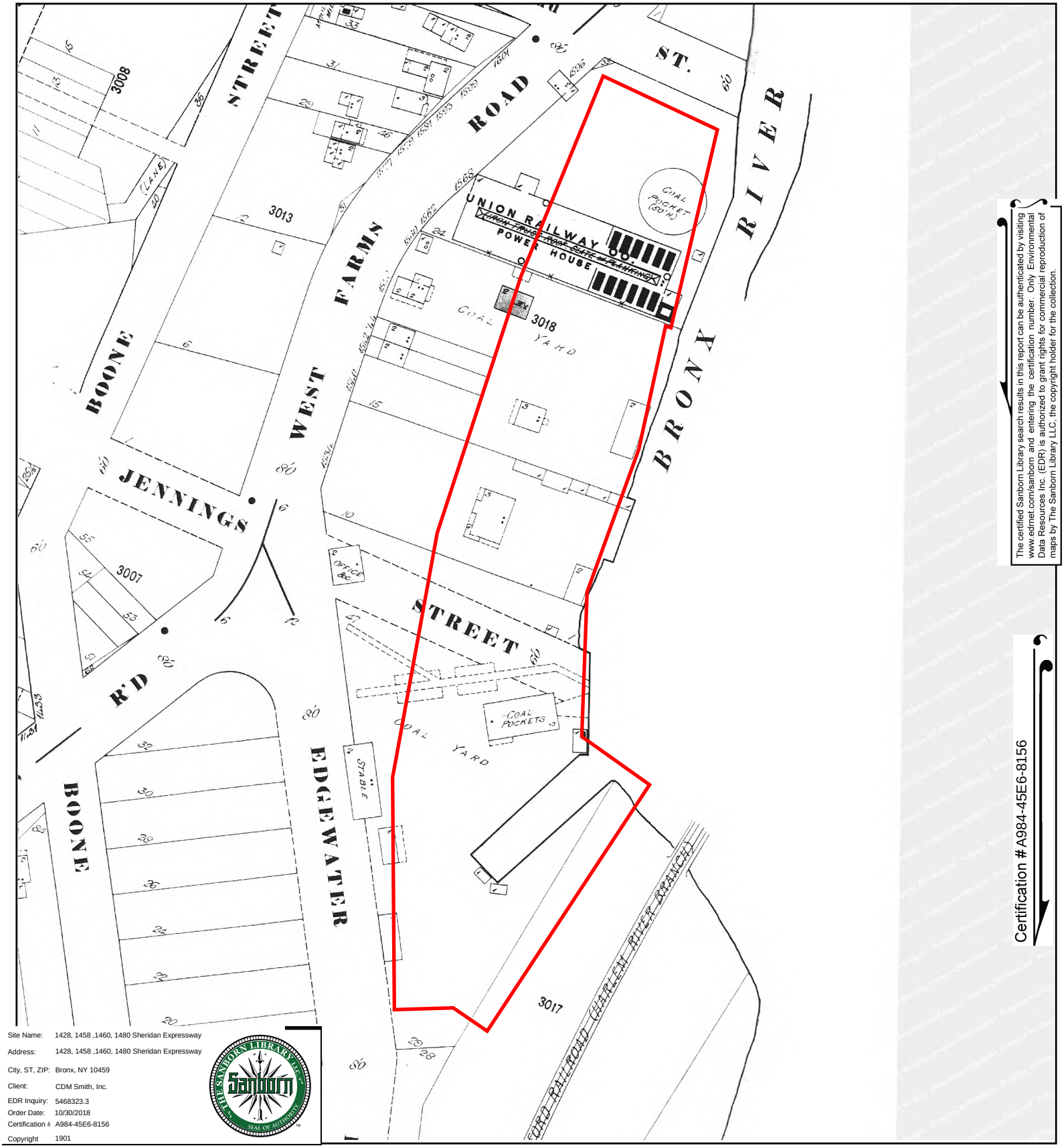
0 Feet 150 300 600





Volume Atlas Maps, Sheet 09
Volume Atlas Maps, Sheet 1

N



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Certification #A984-45E6-8156

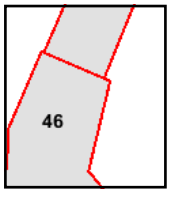
Site Name:	1428, 1458 ,1460, 1480 Sheridan Expressway
Address:	1428, 1458 ,1460, 1480 Sheridan Expressway
City, ST, ZIP:	Bronx, NY 10459
Client:	CDM Smith, Inc.
EDR Inquiry:	5468323.3
Order Date:	10/30/2018
Certification #	A984-45E6-8156
Copyright	1901

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

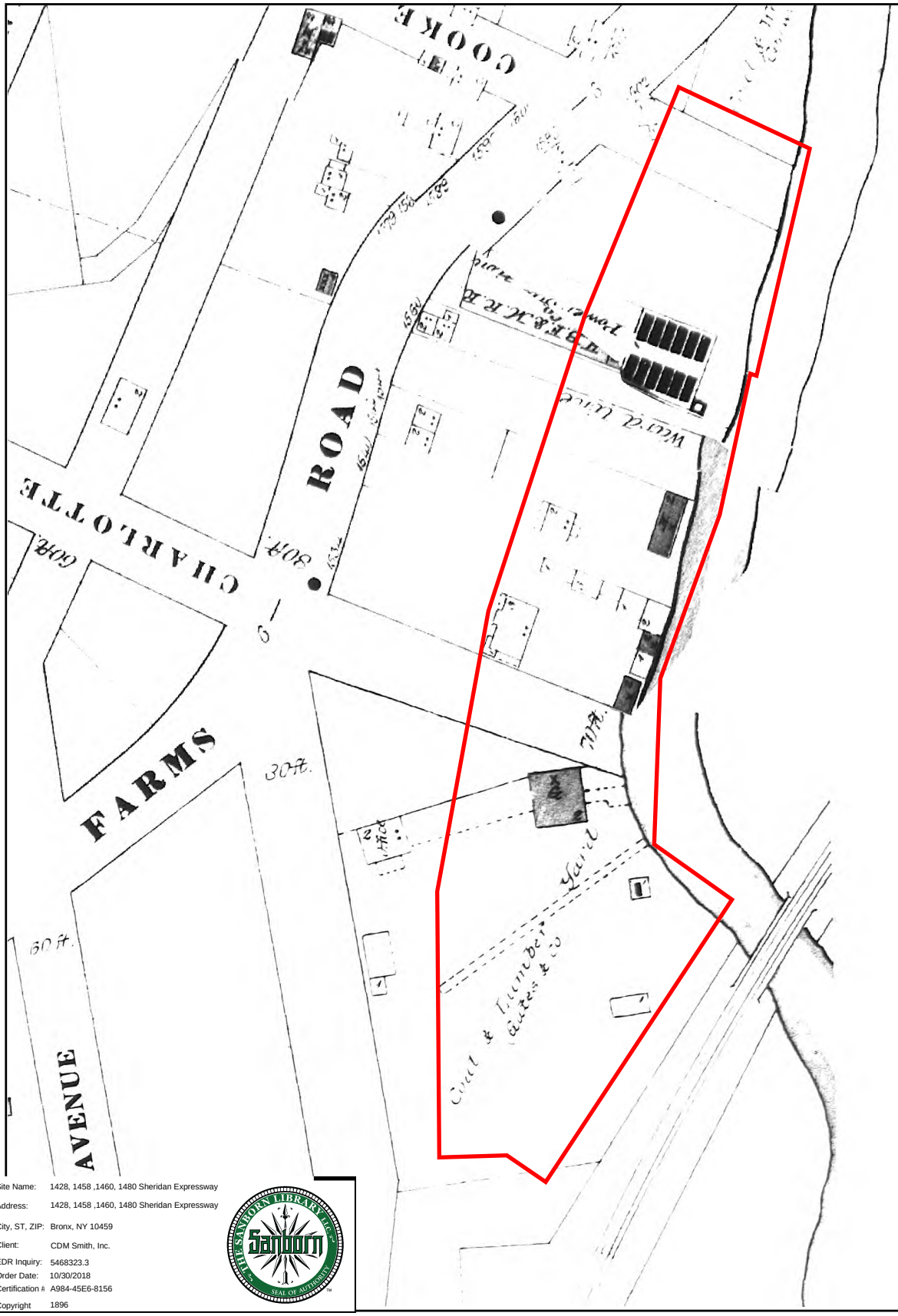
0 Feet 150 300 600

Volume 14, Sheet 46





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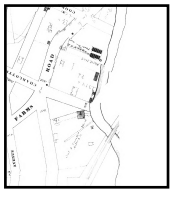


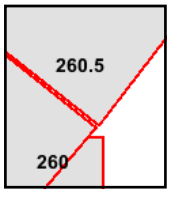
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Certification #A984-45E6-8156

Site Name:	1428, 1458 ,1460, 1480 Sheridan Expressway
Address:	1428, 1458 ,1460, 1480 Sheridan Expressway
City, ST, ZIP:	Bronx, NY 10459
Client:	CDM Smith, Inc.
EDR Inquiry:	5468323.3
Order Date:	10/30/2018
Certification #	A984-45E6-8156
Copyright	1896

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.





Volume 12, Sheet 260.5
Volume 12, Sheet 260.5
Volume 12, Sheet 260

0 Feet 150 300 600

N

Appendix H

Appendix H

City Directories Report

1428, 1458 ,1460, 1480 Sheridan Expressway
1428, 1458 ,1460, 1480 Sheridan Expressway
Bronx, NY 10459

Inquiry Number: 5468323.5
October 30, 2018

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

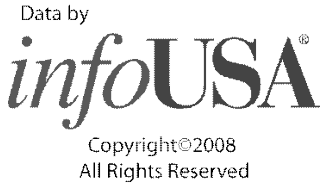
Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1927 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 200 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.



RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	-	X	-
	EDR Digital Archive	X	-	X	-
2010	EDR Digital Archive	-	-	X	-
	EDR Digital Archive	X	-	X	-
2005	Hill-Donnelly Information Services	-	-	X	-
	Hill-Donnelly Information Services	X	-	X	-
2000	Cole Information Services	-	-	X	-
	Cole Information Services	X	-	X	-
1993	New York Telephone	-	X	X	-
	New York Telephone	X	X	X	-
1983	New York Telephone	-	-	X	-
	New York Telephone	X	-	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1976	New York Telephone Company	-	-	X	-
	New York Telephone Company	X	-	X	-
1971	New York Telephone	-	-	X	-
	New York Telephone	X	-	X	-
1965	New York Telephone Company	-	-	-	-
1961	New York Telephone	-	-	-	-
1956	New York Telephone	-	-	-	-
1949	New York Telephone	-	-	-	-
1940	New York Telephone	-	X	X	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	-	X	X	-
1927	New York Telephone	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
1428 Sheridan Expressway	Client Entered	X
1458 Sheridan Expressway	Client Entered	
1460 Sheridan Expressway	Client Entered	X
1480 Sheridan Expressway	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1428, 1458 ,1460, 1480 Sheridan Expressway
Bronx, NY 10459

FINDINGS DETAIL

Target Property research detail.

Sheridan Expressway

1428 Sheridan Expressway

Year	Uses	Source
2005	Marine Welding Inc	Hill-Donnelly Information Services
	Noble	Hill-Donnelly Information Services
	Sound Weldin 9 Inc	Hill-Donnelly Information Services
	Tri Boro Welding Works	Hill-Donnelly Information Services
2000	MARINE WELDING INC	Cole Information Services
	SOUND WELDING INC	Cole Information Services
	T & R MECHL CORP	Cole Information Services
	TRI-BORO WELD WKS	Cole Information Services
1993	LOCAL MECHANICAL CORP	New York Telephone
	MARINE WELDING INC	New York Telephone
	MARINE WELDING INC BRONX	New York Telephone
	T & R MECHANICAL CORP	New York Telephone
1983	AUTHORIZED COMPACTORS & SCRUBBERS INC	New York Telephone
1976	AUTHORIZED COMPACTORS & SCRUBBERS INC	New York Telephone Company
1971	MARINE WELDING INC	New York Telephone

1458 Sheridan Expressway

Year	Uses	Source

1460 Sheridan Expressway

Year	Uses	Source
2005	Hunts Points Auto Wreckers Inc	Hill-Donnelly Information Services
2000	BELCO STEEL CORP	Cole Information Services
1993	BEICO STEEL CORP	New York Telephone
1983	BELCO STEEL CORP	New York Telephone

FINDINGS

1480 Sheridan Expressway

Year	Uses	Source
2005	LKQ Hunts Point Auto Parts	Hill-Donnelly Information Services
2000	HUNTS PT AT WRCKRE	Cole Information Services
	HUNTS PT AUTO PRTS	Cole Information Services
1993	HUNTS POINT AUTO PARTS	New York Telephone
	HUNTS POINT AUTO WRECKERS INC	New York Telephone
1983	HUNTS POINT AUTO WRECKERS INC	New York Telephone

Sheridan Expy

1480 Sheridan Expy

Year	Uses	Source
2014	LKQ CORPORATION	EDR Digital Archive
2010	LKQ CORPORATION	EDR Digital Archive

SHERIDAN EXPY

1480 SHERIDAN EXPY

Year	Uses	Source
2005	LKQ Hunts Point Auto Parts	Hill-Donnelly Information Services
2000	HUNTS PT AT WRCKRE	Cole Information Services
	HUNTS PT AUTO PRTS	Cole Information Services
1993	HUNTS POINT AUTO PARTS	New York Telephone
	HUNTS POINT AUTO WRECKERS INC	New York Telephone
1983	HUNTS POINT AUTO WRECKERS INC	New York Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

EDGEWATER RD

1479 EDGEWATER RD

Year	Uses	Source
1940	Edgewater Garage	New York Telephone

1487 EDGEWATER RD

Year	Uses	Source
1940	Guerriero Frank	New York Telephone
1931	Urso Geatano	Manhattan and Bronx Directory Publishing Company Residential Directory
	Ursa John	Manhattan and Bronx Directory Publishing Company Residential Directory
	Urso Frank	Manhattan and Bronx Directory Publishing Company Residential Directory
	Nunziato Vincent	Manhattan and Bronx Directory Publishing Company Residential Directory
	Nunziato Rose	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Urso T r	New York Telephone

1489 EDGEWATER RD

Year	Uses	Source
1940	Sardone Angelina	New York Telephone
1927	Goldstein Robt M r	New York Telephone

1491 EDGEWATER RD

Year	Uses	Source
1931	Roth Chas	Manhattan and Bronx Directory Publishing Company Residential Directory
	Louis Martha C tchr P S	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Lonis H A r	New York Telephone
	Henrich Jos r	New York Telephone

1493 EDGEWATER RD

Year	Uses	Source
1940	Galitzka Geo I rl est W Burnsd Av	New York Telephone
	Galioto Rose Mrs	New York Telephone

FINDINGS

1495 EDGEWATER RD

Year	Uses	Source
1931	Deresmo Dominick Jr	Manhattan and Bronx Directory Publishing Company Residential Directory
	Deresmo Dominick	Manhattan and Bronx Directory Publishing Company Residential Directory

1497 EDGEWATER RD

Year	Uses	Source
1927	Graham Mary Mrs r	New York Telephone

1499 EDGEWATER RD

Year	Uses	Source
1931	Tiechner Saml	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Tackler Wm r	New York Telephone

SHERIDAN EXPY

1476 SHERIDAN EXPY

Year	Uses	Source
1993	WESTCHESTER AUTO COLLISION	New York Telephone
	SHERIDAN EXPRESS AUTO REPAIR	New York Telephone

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1476 SHERIDAN EXPY	2014, 2010, 2005, 2000, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1479 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
1487 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949
1489 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931
1491 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940
1493 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
1495 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
1497 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
1499 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
1428, 1458 ,1460, 1480 Sheridan Expressway	1965, 1961, 1956, 1949, 1940, 1931, 1927

Appendix I

Appendix I

Building Permit Report

1428, 1458 ,1460, 1480 Sheridan Expressway
1428, 1458 ,1460, 1480 Sheridan Expressway
Bronx, NY 10459

Inquiry Number: 5468323.8
October 31, 2018

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILDFAX® PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of CDM Smith, Inc. on Oct 31, 2018.

TARGET PROPERTY

1428, 1458 ,1460, 1480 Sheridan Expressway
Bronx, NY 10459

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

P//New York City, NY

Year	*Source*	*TP*	*Adjoining*
2018	New York City, Department of Buildings		X
2017	New York City, Department of Buildings		X
2016	New York City, Department of Buildings		X
	New York City, Department of Buildings	X	
2015	New York City, Department of Buildings		X
	New York City, Department of Buildings	X	
2014	New York City, Department of Buildings		X
2013	New York City, Department of Buildings		X
	New York City, Department of Buildings	X	
2012	New York City, Department of Buildings		X
2011	New York City, Department of Buildings		X
2010	New York City, Department of Buildings		X
2009	New York City, Department of Buildings		X
2008	New York City, Department of Buildings		X
2007	New York City, Department of Buildings		X
2006	New York City, Department of Buildings		X
2005	New York City, Department of Buildings		X
2004	New York City, Department of Buildings		X
2003	New York City, Department of Buildings		X
2002	New York City, Department of Buildings		X
2001	New York City, Department of Buildings		X
2000	New York City, Department of Buildings		X
1999	New York City, Department of Buildings		X
1998	New York City, Department of Buildings		X
1997	New York City, Department of Buildings		X
1996	New York City, Department of Buildings		X
1995	New York City, Department of Buildings		X
1994	New York City, Department of Buildings		X

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	Source	TP	Adjoining
1993	New York City, Department of Buildings		X
1992	New York City, Department of Buildings		X
1991	New York City, Department of Buildings		X
1990	New York City, Department of Buildings		X
1989	New York City, Department of Buildings		X
1988	New York City, Department of Buildings		X
	New York City, Department of Buildings	X	
1987	New York City, Department of Buildings		X
1986	New York City, Department of Buildings		X
	New York City, Department of Buildings	X	
1985	New York City, Department of Buildings		X
1984	New York City, Department of Buildings		X

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: P//New York City, NY
Years: 1984-2018
Source: New York City, Department of Buildings, NEW YORK, NY
Phone: (212) 566-5000

Name: Southampton town
Years: 1972-2016
Source: Town of Southampton, Land Management, Building and Zoning Division, SOUTHAMPTON, NY
Phone: (631) 287-5700

Name: Eastchester town
Years: 2003-2018
Source: , Eastchester, NY
Phone: (914) 771-3317

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

1428, 1458 ,1460, 1480 Sheridan Expressway
Bronx, NY 10459

1460 SHERIDAN EXPY

Date:	**4/21/2016**
Permit Type:	**PL**
Description:	**MECHANICAL AND PLUMBING WORK ASSOCIATED WITH RENOVATION OF EXISTING AUTO REPAIR SHOP.**
Permit Description:	**PLUMBING**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	
Permit Number:	220422219-03-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	VILLAGE P & H NY INC, VILLAGE P & H INC, CERTIFIED SVS OF NY MGMT, CERTIFIED SVC OF NY MGMT

Date:	**7/2/2015**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	
Proposed Use:	
Permit Number:	Y173721
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

TARGET PROPERTY FINDINGS

Date: **5/6/2015**
Permit Type: **SG**
Description:

Permit Description: **SIGN**
Work Class: SG - SIGN
Proposed Use:
Permit Number: 220455344-01-SG
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: LONG SHOT CRANE LLC, SKYHIGH MURALS-COLOSSAL

Date: **5/6/2015**
Permit Type: **SG**
Description:

Permit Description: **SIGN**
Work Class: SG - SIGN
Proposed Use:
Permit Number: 220455353-01-SG
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: LONG SHOT CRANE LLC, SKYHIGH MURALS-COLOSSAL

Date: **2/26/2015**
Permit Type: **EW**
Description: **RENOVATION OF EXISTING AUTO-REPAIR SHOP.**

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: OTHER CONSTRUCTION EQUIPMENT
Permit Number: 220422219-01-EW-OT
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: SIMONE DEVELOPMENT COMPAN

TARGET PROPERTY FINDINGS

Date:	**2/26/2015**
Permit Type:	**EW**
Description:	**STRUCTURAL WORK ASSOCIATED WITH THE RENOVATION OF EXISTING AUTO REPAIR SHOP.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220422219-02-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SIMONE DEVELOPMENT COMPAN

Date:	**2/26/2015**
Permit Type:	**EW**
Description:	**MECHANICAL AND PLUMBING WORK ASSOCIATED WITH RENOVATION OF EXISTING AUTO REPAIR SHOP.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	MECHANICAL/HVAC
Permit Number:	220422219-03-EW-MH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SIMONE DEVELOPMENT COMPAN

Date:	**4/9/1988**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y019808
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LOBELLO ELECT. SERV. CORP F LOBELLO, LOBELLO ELECT. SERV. CORP DENIS DOYLE

Date:	**12/15/1986**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y009986
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LOBELLO ELECT. SERV. CORP F LOBELLO, LOBELLO ELECT. SERV. CORP DENIS DOYLE

1480 SHERIDAN EXPY

Date:	**4/4/2013**
Permit Type:	**PL**
Description:	**NEW H.V.A.C. UNITS & UNIT HEATERS TO REPLACE EXISTING, NEW GAS PIPING, EXSTING GAS METTER TO BE UNLOCKED. NO CHANGE IN EGRESS, USE OR OCCUPANCY AS PART OF THIS APPLICATION**
Permit Description:	**PLUMBING**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	
Permit Number:	220251625-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FORTE EXPRESS P & H INC

TARGET PROPERTY FINDINGS

Date:	**3/1/2013**
Permit Type:	**EW**
Description:	**NEW H.V.A.C. UNITS & UNIT HEATERS TO REPLACE EXISTING, NEW GAS PIPING, EXSTING GAS METTER TO BE UNLOCKED. NO CHANGE IN EGRESS, USE OR OCCUPANCY AS PART OF THIS APPLICATION**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	MECHANICAL/HVAC
Permit Number:	220251625-01-EW-MH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	EURO-COMFORT CORP

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

1481A LONGFELLOW AVE

1481A LONGFELLOW AVE

Date: **8/8/2017**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y183767
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: SUNRUN SOLAR ELECTL CORP SAMY MOUNAS

Date: **8/8/2017**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y183768
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: SUNRUN SOLAR ELECTL CORP, GOLD STAR ELECT'L, INC

ADJOINING PROPERTY FINDINGS

Date:	**8/4/2017**
Permit Type:	**EW**
Description:	**FILING HEREWITH TAX ABATEMENT APPLICATION FOR THE INSTALLATION OF ROOF MOUNTED SOLAR PANELS. NO CHANGE IN USE, EGRESS OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	240192705-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SUNRUN INSTALLATION SVC

Date:	**9/10/1996**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y079745
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A TO Z ELEC'L CONTRG CORP R HANLEY

Date:	**4/25/1996**
Permit Type:	**PL**
Description:	
Permit Description:	**PLUMBING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200285137-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DUO PLBG. & HTG. CORP

ADJOINING PROPERTY FINDINGS

Date:	**4/17/1996**
Permit Type:	**NB**
Description:	
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200285137-01-NB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

BOONE AVE

1508 BOONE AVE

Date:	**3/15/2018**
Permit Type:	**EW**
Description:	**PROPOSE TO INSTALL 18 NEW SPRINKLER HEADS AT LOWER CEILING FOR THE PROTECTION OF AFTER SCHOOL FACILITY AT PARTIAL OF 1ST FLOOR. NO CHANGE IN USE EGRESS OR OCCUPANCY UNDER THIS APPLICATION.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	SPRINKLER
Permit Number:	220639593-01-EW-SP
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PRECISION PLBG SVCS., INC, MPI PLUMBING CORP, PRECISION PLUMBING SERVIC, HYDRO TECH MECH CORP, PRECI

ADJOINING PROPERTY FINDINGS

Date:	**10/31/2017**
Permit Type:	**PL**
Description:	**CHANGE OF OCCUPANCY ON PART OF THE 1ST FLOOR FROM COMMERCIAL SPACE TO AFTER SCHOOL FACILITY. MINOR INTERIOR WORK AS PER PLANS. OBTAIN AMENDED CERTIFICATE OF OCCUPANCY OF THE 1ST FLOOR (BUILDING A).**
Permit Description:	**PLUMBING**
Work Class:	A1 - ALTERATION TYPE 1
Proposed Use:	
Permit Number:	220610462-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	L.L.G. PLBG & HTG INC, LLG P, H, TRIUMPH CONST

Date:	**10/17/2017**
Permit Type:	
Description:	
Permit Description:	**Electrical Permit**
Work Class:	
Proposed Use:	
Permit Number:	Y184895
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SUPREME ELECTRIC CORP, SUPREME ELECTRIC CORP.

ADJOINING PROPERTY FINDINGS

Date:	**10/10/2017**
Permit Type:	**AL**
Description:	**CHANGE OF OCCUPANCY ON PART OF THE 1ST FLOOR FROM COMMERCIAL SPACE TO AFTER SCHOOL FACILITY. MINOR INTERIOR WORK AS PER PLANS. OBTAIN AMENDED CERTIFICATE OF OCCUPANCY OF THE 1ST FLOOR (BUILDING A).**
Permit Description:	**ALTERATION**
Work Class:	A1 - ALTERATION TYPE 1
Proposed Use:	
Permit Number:	220610462-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FIRST WORLD DEVELOPMENT

Date:	**6/17/2013**
Permit Type:	**DM**
Description:	**FUL DEMOLITION OF ONE STORY SHED IN BAD DISREPAIR, WHICH WILL BE DEMOLISHED USING MECHANICAL MEANS.**
Permit Description:	**DEMOLITION & REMOVAL**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	
Permit Number:	220247301-01-DM
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WORLD CLASS DEMOLITION CO

ADJOINING PROPERTY FINDINGS

Date:	**6/17/2013**
Permit Type:	**EQ**
Description:	**FUL DEMOLITION OF ONE STORY SHED IN BAD DISREPAIR, WHICH WILL BE DEMOLISHED USING MECHANICAL MEANS.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	FENCE
Permit Number:	220247301-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WORLD CLASS DEMOLITION CO

Date:	**6/14/2013**
Permit Type:	**EQ**
Description:	**INSTALLATION OF 241 LINEAR FEET OF HEAVY DUTY SIDEWALK SHED DURING BUILDING DEMOLITION, FILED SEPARATELY. LIVE LOAD 300 PSF. SIDEWALK SHED SHALL COMPLY WITH CHAPTER #33 OF THE 2008 CODE. NO CHANGE IN USE, OCCUPANCY OR EGRESS UNDER THIS APPLICATION.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	SIDEWALK SHED
Permit Number:	220285590-01-EQ-SH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ARSENAL SCAFFOLD INC

ADJOINING PROPERTY FINDINGS

Date:	**6/14/2013**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y164610
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	NASH ELECTRIC SERVICES IN PAUL OLSEN, NASH ELECTRIC SERVICES IN

Date:	**3/21/2013**
Permit Type:	**EW**
Description:	**ALT 2 FOR REMOVAL OF EXTERIOR WALL. PART OF EXISTING WALL FELL DOWN. NO CHANGE TO USE OCCUPANCY OR EGRESS.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220254043-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

ADJOINING PROPERTY FINDINGS

1512 BOONE AVE

Date:	**11/4/2016**
Permit Type:	**AL**
Description:	**FIRE PROTECTION PLAN BEING FILED IN CONJUNCTION WITH NEW BUILDING APPLICATION NUMBER 220210368. NO CHANGE TO USE, EGRESS OR OCCUPANCY.**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	240116995-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

Date:	**3/23/2016**
Permit Type:	**NB**
Description:	**NEW FIFTEEN (15) STORY MIXED USE BUILDING.**
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	220210368-01-NB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

ADJOINING PROPERTY FINDINGS

Date:	**2/15/2016**
Permit Type:	**EW**
Description:	**INSTALL TEMPORARY STANDPIPE AS PER PLANS FILED. NO CHANGE IN USE EGRESS OR OCCUPANCY. IN CONJUNCTION WITH NB3 220210368**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	STAND PIPE
Permit Number:	220346926-01-EW-SD
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

Date:	**1/21/2016**
Permit Type:	**PL**
Description:	**MECHANICAL, PLUMBING AND BOILER PLANS IN CONJUNCTION WITH NEW BUILDING APPLICATION # 220210368**
Permit Description:	**PLUMBING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	220210368-03-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

ADJOINING PROPERTY FINDINGS

Date:	**1/21/2016**
Permit Type:	**EW**
Description:	**NEW BUILDING - SPRINKLER AND STANDPIPE PLANS IN CONJUNCTION WITH THE NEW BUILDING # 220210368.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	NB - NEW BUILDING
Proposed Use:	STAND PIPE
Permit Number:	2PL001555-04-EW-SD
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

Date:	**1/21/2016**
Permit Type:	**EW**
Description:	**NEW BUILDING - SPRINKLER AND STANDPIPE PLANS IN CONJUNCTION WITH THE NEW BUILDING # 220210368.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	NB - NEW BUILDING
Proposed Use:	SPRINKLER
Permit Number:	2PL001556-04-EW-SP
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

ADJOINING PROPERTY FINDINGS

Date:	**12/31/2015**
Permit Type:	**EW**
Description:	**FILING TENANT PROTECTION PLAN IN CONJUNCTION WITH NEW BUILDING APPLICATION 220210368. NO CHANGE TO USE OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220493357-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

Date:	**12/31/2015**
Permit Type:	**EW**
Description:	**FILING GENERATOR IN CONJUNCTION WITH NB 220210368. NO CHANGE TO OCCUPANCY, EGRESS, OR USE.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	MECHANICAL/HVAC
Permit Number:	220493366-01-EW-MH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

ADJOINING PROPERTY FINDINGS

Date:	**10/30/2015**
Permit Type:	**PL**
Description:	**APPLICATION BEING FILED FOR GAS UNITS FOR TEMPORARY HEAT. APPLICATION FILED IN CONJUNCTION WITH NB # 220210368. NO CHANGE TO USE, EGRESS OR OCCUPANCY.**
Permit Description:	**PLUMBING**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	
Permit Number:	220485197-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

Date:	**10/14/2015**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	
Proposed Use:	
Permit Number:	Y175143
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**7/2/2015**
Permit Type:	**EQ**
Description:	**INSTALLATION OF 6,200 LBS ALIMAK SCANDO 28/37FC DUAL CAGE TEMPORARY MATERIAL/ PERSONNEL HOIST AS PER PLAN. WORK TO COMPLY WITH A10.4-81, DOB RS 18-7 AND 2008 BUILDING CODE. NO CHANGE IN USE EGRESS OR OCCUPANCY.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220394231-01-EQ-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	COLGATE ENTERPRISE CORP, CS BRIDGE CORP

Date:	**7/2/2015**
Permit Type:	**EQ**
Description:	**INSTALLATION OF 7,100 LBS ALIMAK SCANDO 32/39FC DUAL CAGE TEMPORARY MATERIAL PERSONNEL HOIST AS PER PLAN. WORK TO COMPLY WITH A10.4-81,DOB RS 18-7 AND 2008 BUILDING CODE. NO CHANGE IN USE, EGRESS OR OCCUPANCY.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220394240-01-EQ-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	COLGATE ENTERPRISE CORP, CS BRIDGE CORP

ADJOINING PROPERTY FINDINGS

Date:	**6/12/2015**
Permit Type:	**EQ**
Description:	**NEW FIFTEEN (15) STORY MIXED USE BUILDING.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	NB - NEW BUILDING
Proposed Use:	FENCE
Permit Number:	220210368-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

Date:	**4/28/2015**
Permit Type:	**EQ**
Description:	**INSTALLATION OF PIPE SCAFFOLD AS PER PLANS. WORK SHALL COMPLY WITH 2008 BUILDING CODE CHAPTER 33. NO CHANGE IN USE EGRESS OR OCCUPANCY.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	SCAFFOLD
Permit Number:	240056853-01-EQ-SF
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PILKU CONSTRUCTION SERVIC

ADJOINING PROPERTY FINDINGS

Date:	**1/15/2015**
Permit Type:	**EW**
Description:	**SUPPORT OF EXCAVATION FILING (SOE)IN CONJUNCTION WITH NB3 220210368. NO CHANGE IN USE EGRESS OR OCCUPANCY**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	240046222-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

Date:	**12/1/2014**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	NEW BUILDING
Proposed Use:	
Permit Number:	Y169848
Status:	Open
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OTIS ELEVATOR COMPANY GERALD OTTEN, OTIS ELEVATOR COMPANY

Date:	**7/24/2014**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	NEW BUILDING
Proposed Use:	
Permit Number:	Y169512
Status:	Open
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AMBER LITE ELECTRIC CORP. PETER GIOELLO, AMBER LITE ELECTRIC CORP. H NELSON, AMBER LITE ELECTRIC COR

ADJOINING PROPERTY FINDINGS

Date: **7/7/2014**
Permit Type:
Description:

Permit Description: **ELECTRICAL**
Work Class: NEW BUILDING
Proposed Use:
Permit Number: Y169843
Status: Open
Valuation: $0.00
Contractor Company:
Contractor Name: AMBER LITE ELECTRIC CORP. PETER GIOELLO, AMBER LITE ELECTRIC CORP. H NELSON, AMBER LITE ELECTRIC COR

Date: **6/24/2014**
Permit Type:
Description:

Permit Description: **ELECTRICAL**
Work Class: REHABILITATION
Proposed Use:
Permit Number: Y169137
Status: Open
Valuation: $0.00
Contractor Company:
Contractor Name: NASH ELECTRIC SERVICES IN PAUL OLSEN, NASH ELECTRIC SERVICES IN

Date: **6/24/2014**
Permit Type:
Description:

Permit Description: **ELECTRICAL**
Work Class: REHABILITATION
Proposed Use:
Permit Number: Y169138
Status: Open
Valuation: $0.00
Contractor Company:
Contractor Name: NASH ELECTRIC SERVICES IN PAUL OLSEN, NASH ELECTRIC SERVICES IN

ADJOINING PROPERTY FINDINGS

Date:	**1/8/2014**
Permit Type:	**EW**
Description:	**TEMPORARY TENT FOR GROUNDBREAKING. NO CHANGE TO USE, EGRESS OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220352918-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

Date:	**6/10/2013**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	NEW BUILDING
Proposed Use:	
Permit Number:	Y164527
Status:	Open
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HORSEPOWER ELECTRIC.& ZVI SARAFRAZ, HORSEPOWER ELECTRIC.&

Date:	**6/7/2013**
Permit Type:	**DM**
Description:	**FULL DEMOLITION OF ONE STORY STRUCTURE, USING MECHANICAL MEANS.**
Permit Description:	**DEMOLITION & REMOVAL**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	
Permit Number:	220247276-01-DM
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WORLD CLASS DEMOLITION CO

ADJOINING PROPERTY FINDINGS

Date: **6/7/2013**
Permit Type: **EQ**
Description: **FULL DEMOLITION OF ONE STORY STRUCTURE, USING MECHANICAL MEANS.**

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: DM - FULL DEMOLITION
Proposed Use: FENCE
Permit Number: 220247276-01-EQ-FN
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: WORLD CLASS DEMOLITION CO

1524 BOONE AVE

Date: **5/18/2018**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: X00043619I1EL
Status: Permit Issued
Valuation: $0.00
Contractor Company:
Contractor Name: GEORGE HOLNESS

Date: **2/22/2018**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: X00021395I1EL
Status: Permit Issued
Valuation: $0.00
Contractor Company:
Contractor Name: GLO ELECTRIC LLC

ADJOINING PROPERTY FINDINGS

Date: **2/21/2018**
Permit Type:
Description:

Permit Description: **ELECTRICAL**
Work Class: REHABILITATION
Proposed Use:
Permit Number: Y186698
Status: (SEE DOB NOW BUILD)
Valuation: $0.00
Contractor Company:
Contractor Name: GLO ELECTRIC LLC ROBERT GIOELLO, GLO ELECTRIC LLC

Date: **2/6/2018**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: X00016814I1EL
Status: Permit Issued
Valuation: $0.00
Contractor Company:
Contractor Name: PRINCIPAL ELECTRICAL CORP

Date: **2/5/2018**
Permit Type:
Description:

Permit Description: **ELECTRICAL**
Work Class: REHABILITATION
Proposed Use:
Permit Number: Y186441
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: PRINCIPAL ELECTRICAL CORP EWAN PALMER, PRINCIPAL ELECTRICAL CORP

ADJOINING PROPERTY FINDINGS

Date:	**7/19/2017**
Permit Type:	**PL**
Description:	**MECHANICAL AND PLUMBING WORK AS SHOWN PLANS FILED HEREWITH**
Permit Description:	**PLUMBING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	220151662-03-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

Date:	**5/4/2017**
Permit Type:	**EQ**
Description:	**CONSTRUCT NEW (12) TWELVE STORY RESIDENTIAL BUILDING AS PER PLANS FILED.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	NB - NEW BUILDING
Proposed Use:	FENCE
Permit Number:	220151662-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

ADJOINING PROPERTY FINDINGS

Date:	**5/2/2017**
Permit Type:	**EW**
Description:	**INSTALL SPRINKLER/STANDPIPE SYSTEM IN BUILDING 2A AS PER PLANS FILED. NO CHANGE IN USE EGRESS OR OCCUPANCY. IN CONJUNCTION WITH NB# 220151662**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	STAND PIPE
Permit Number:	240096800-01-EW-SD
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

Date:	**5/2/2017**
Permit Type:	**EW**
Description:	**INSTALL SPRINKLER/STANDPIPE SYSTEM IN BUILDING 2A AS PER PLANS FILED. NO CHANGE IN USE EGRESS OR OCCUPANCY. IN CONJUNCTION WITH NB# 220151662**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	SPRINKLER
Permit Number:	240096800-01-EW-SP
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

ADJOINING PROPERTY FINDINGS

Date:	**1/19/2017**
Permit Type:	**NB**
Description:	**CONSTRUCT NEW (12) TWELVE STORY RESIDENTIAL BUILDING AS PER PLANS FILED.**
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	220151662-01-NB
Status:	ISSUED, RE-ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

Date:	**6/21/2016**
Permit Type:	**EW**
Description:	**INSTALL TEMPORARY DRY STANDPIPE SYSTEM FOR BUILDING 2A DURING CONSTRUCTION. NO CHANGE IN USE EGRESS OR OCCUPANCY. IN CONJUNCTION WITH NB# 220151662**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	STAND PIPE
Permit Number:	240095785-01-EW-SD
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

ADJOINING PROPERTY FINDINGS

Date:	**7/7/2015**
Permit Type:	**FO**
Description:	**CONSTRUCT NEW (12) TWELVE STORY RESIDENTIAL BUILDING AS PER PLANS FILED.**
Permit Description:	**FOUNDATION/EARTHWORK**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	220151662-01-FO
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

Date:	**7/7/2015**
Permit Type:	**FO**
Description:	**CONSTRUCT NEW (12) TWELVE STORY RESIDENTIAL BUILDING AS PER PLANS FILED.**
Permit Description:	**FOUNDATION/EARTHWORK**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	220151662-01-FO-EA
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

ADJOINING PROPERTY FINDINGS

1544 BOONE AVE

Date: **7/11/2018**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: X00060239I1EL
Status: Permit Issued
Valuation: $0.00
Contractor Company:
Contractor Name: PRINCIPAL ELECTRICAL CORP

Date: **7/7/2018**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: X00059402I1EL
Status: Permit Issued
Valuation: $0.00
Contractor Company:
Contractor Name: PRINCIPAL ELECTRICAL CORP

Date: **2/12/2018**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y015095
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: FEOLA ELECTRIC INC.

ADJOINING PROPERTY FINDINGS

Date: **2/12/2018**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y138990
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: QUAD ELECTRIC CORP.

Date: **2/6/2018**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: X00016856I1EL
Status: Permit Issued
Valuation: $0.00
Contractor Company:
Contractor Name: PRINCIPAL ELECTRICAL CORP

Date: **2/5/2018**
Permit Type:
Description:

Permit Description: **ELECTRICAL**
Work Class: REHABILITATION
Proposed Use:
Permit Number: Y186443
Status: (SEE DOB NOW BUILD)
Valuation: $0.00
Contractor Company:
Contractor Name: PRINCIPAL ELECTRICAL CORP EWAN PALMER, PRINCIPAL ELECTRICAL CORP

ADJOINING PROPERTY FINDINGS

Date:	**10/26/2017**
Permit Type:	**AL**
Description:	**FIRE PROTECTION PLAN BEING FILED IN CONJUNCTION WITH NB JOB NUMBER 220151653. NO CHANGE TO USE, EGRESS OR OCCUPANCY.**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	220538381-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

Date:	**10/26/2017**
Permit Type:	**EW**
Description:	**TENANT PROTECTION PLAN BEING FILED IN CONJUNCTION WITH NEW BUILDING APPLICATION NUMBER 220151653. NO CHANGE TO USE, EGRESS OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220592286-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

ADJOINING PROPERTY FINDINGS

Date:	**7/19/2017**
Permit Type:	**PL**
Description:	**MECHANICAL AND PLUMBING WORK AS SHOWN PLANS FILED HEREWITH**
Permit Description:	**PLUMBING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	220151653-03-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

Date:	**5/4/2017**
Permit Type:	**EQ**
Description:	**CONSTRUCT NEW (14) FOURTEEN STORY MIXED- USE BUILDING AS PER PLANS FILED**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	NB - NEW BUILDING
Proposed Use:	FENCE
Permit Number:	220151653-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

ADJOINING PROPERTY FINDINGS

Date:	**5/2/2017**
Permit Type:	**EW**
Description:	**INSTALL SPRINKLER/STANDPIPE SYSTEM IN BUILDING 2B AS PER PLANS FILED. NO CHANGE IN USE EGRESS OR OCCUPANCY. IN CONJUNCTION WITH NB# 220151653**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	STAND PIPE
Permit Number:	240096828-01-EW-SD
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

Date:	**5/2/2017**
Permit Type:	**EW**
Description:	**INSTALL SPRINKLER/STANDPIPE SYSTEM IN BUILDING 2B AS PER PLANS FILED. NO CHANGE IN USE EGRESS OR OCCUPANCY. IN CONJUNCTION WITH NB# 220151653**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	SPRINKLER
Permit Number:	240096828-01-EW-SP
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

ADJOINING PROPERTY FINDINGS

Date:	**1/25/2017**
Permit Type:	**EQ**
Description:	**INSTALLATION OF TEMPORARY PIPE SCAFFOLD AS PER PLAN SUBMITTED. WORK SHALL COMPLY WITH 2014 BUILDING CODES CHAPTER 33. NO CHANGE IN USE, EGRESS OR OCCUPANCY.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	SCAFFOLD
Permit Number:	240131040-01-EQ-SF
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PILKU CONSTRUCTION SERVIC

Date:	**1/19/2017**
Permit Type:	**NB**
Description:	**CONSTRUCT NEW (14) FOURTEEN STORY MIXED- USE BUILDING AS PER PLANS FILED**
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	220151653-01-NB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MONADNOCK CONSTRUCTION IN

ADJOINING PROPERTY FINDINGS

Date:	**1/6/2017**
Permit Type:	**EQ**
Description:	**INSTALLATION OF A DUAL 6000 LBS CAPACITY PERSONNEL/MATERIAL HOIST DURING NEW BUILDING CONSTRUCTION, FILED SEPARATELY. DUAL HOIST SHALL COMPLY WITH CHAPTER #33 OF THE NYC BUILDING CODE. NO CHANGE IN USE, OCCUPANCY OR EGRESS UNDER THIS APPLICATION. ELEVATOR APPLICATION SUBMITTED SEPARATELY TO ELEVATOR DIVISION.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220469669-01-EQ-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	S&E BRIDGE & SCAFFOLD LLC

Date:	**1/4/2017**
Permit Type:	**PL**
Description:	**APPLICATION BEING FILED FOR GAS UNITS FOR TEMPORARY HEAT. APPLICATION FILED IN CONJUNCTION WITH NB # 220151653. NO CHANGE TO USE, EGRESS OR OCCUPANCY.**
Permit Description:	**PLUMBING**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	
Permit Number:	220555664-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

ADJOINING PROPERTY FINDINGS

Date: **8/26/2016**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y179079
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: GLO ELECTRIC LLC ROBERT GIOELLO, GLO ELECTRIC LLC

Date: **7/13/2016**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y178475
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: TUXEDO ELEC'L CONTR'G INC JOHN AHRENS, TUXEDO ELEC'L CONTR'G INC

Date: **6/21/2016**
Permit Type: **EW**
Description: **INSTALL TEMPORARY DRY STANDPIPE SYSTEM FOR BUILDING 2B DURING CONSTRUCTION. NO CHANGE IN USE EGRESS OR OCCUPANCY. IN CONJUNCTION WITH NB# 220151653**

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: STAND PIPE
Permit Number: 240095721-01-EW-SD
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: RO-SAL PLUMBING & HTG INC, RO-SAL PLBG HTG INC

ADJOINING PROPERTY FINDINGS

Date: **5/5/2016**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y177499
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: GLO ELECTRIC LLC ROBERT GIOELLO, GLO ELECTRIC LLC

Date: **3/12/2016**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y176838
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: NASH ELECTRIC SERVICES IN, NASH ELECTRIC SERVICES INC.

Date: **1/20/2016**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y176268
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: NASH ELECTRIC SERVICES IN, NASH ELECTRIC SERVICES INC.

ADJOINING PROPERTY FINDINGS

Date: **10/7/2015**
Permit Type:
Description:

Permit Description: **ELECTRICAL**
Work Class:
Proposed Use:
Permit Number: Y175057
Status: AWAITING INSPECTION REQUEST
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/7/2015**
Permit Type: **FO**
Description: **CONSTRUCT NEW (14) FOURTEEN STORY MIXED- USE BUILDING AS PER PLANS FILED**

Permit Description: **FOUNDATION/EARTHWORK**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 220151653-01-FO
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: MONADNOCK CONSTRUCTION IN

Date: **7/7/2015**
Permit Type: **FO**
Description: **CONSTRUCT NEW (14) FOURTEEN STORY MIXED- USE BUILDING AS PER PLANS FILED**

Permit Description: **FOUNDATION/EARTHWORK**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 220151653-01-FO-EA
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: MONADNOCK CONSTRUCTION IN

ADJOINING PROPERTY FINDINGS

Date:	**6/2/2015**
Permit Type:	**DM**
Description:	**REMOVAL OF GARAGE ON BLOCK 3014, LOT 9.**
Permit Description:	**DEMOLITION & REMOVAL**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	
Permit Number:	220359378-01-DM
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PERCIBALLI INDUSTRIES INC, POSILLICO ENVIRONMENTAL I

Date:	**8/27/2009**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y148152
Status:	VIOLATN PENDING AT CONTRACTOR
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CONCORDE ELEC'L SER INC GREGORY BOWMAN, CONCORDE ELEC'L SER INC

Date:	**1/15/2000**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y096841
Status:	NO JOB PROGRESS
Valuation:	$0.00
Contractor Company:	
Contractor Name:	EXPRESS ELECTRIC CO. CHARLES LUCCARELLI, EXPRESS ELECTRIC CO.

ADJOINING PROPERTY FINDINGS

BOONE AVENUE

1460 BOONE AVENUE

Date: **7/20/1987**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y013151
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: A. BADALAMENTI ELEC'L CON AUGUST BADALAMENTI

BRONX RIVER AVE

1271 BRONX RIVER AVE

Date: **7/25/2014**
Permit Type:
Description:

Permit Description: **ELECTRICAL**
Work Class: REHABILITATION
Proposed Use:
Permit Number: Y169540
Status: Closed
Valuation: $0.00
Contractor Company:
Contractor Name: MOLLER & MOLLER INC.D/B/A GEORGE MOLLER, MOLLER & MOLLER INC.D/B/A

ADJOINING PROPERTY FINDINGS

Date: **6/10/1997**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y083625
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: GANECO ELECTRIC CORP. WARREN GANNES

E 172ND ST

1002 E 172ND ST

Date: **4/24/1997**
Permit Type: **EQ**
Description:

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: NB - NEW BUILDING
Proposed Use: FENCE
Permit Number: 200375138-03-EQ-FN
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

ADJOINING PROPERTY FINDINGS

Date: **4/24/1997**
Permit Type: **NB**
Description:

Permit Description: **NEW BUILDING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200375138-01-NB
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

Date: **3/1/1997**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y082121
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: A TO Z ELEC'L CONTRG CORP R HANLEY

Date: **11/22/1996**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200375138-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: DUO PLBG. & HTG. CORP

ADJOINING PROPERTY FINDINGS

1004 E 172ND ST

Date:	**4/24/1997**
Permit Type:	**NB**
Description:	
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200375147-01-NB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

Date:	**3/1/1997**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y082120
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A TO Z ELEC'L CONTRG CORP R HANLEY

ADJOINING PROPERTY FINDINGS

Date:	**11/22/1996**
Permit Type:	**PL**
Description:	
Permit Description:	**PLUMBING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200375147-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DUO PLBG. & HTG. CORP

1006 E 172ND ST

Date:	**3/21/2016**
Permit Type:	**EW**
Description:	**REPLACE THREE BOILERS AND HOT WATER HEATERS WITHIN AN EXISTING THREE FAMILY DWELLING.NO CHANGE IN EGRESS OCCUPANCY OR USE.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220519062-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	E&J ALL SEASONS CONSTRUCT, E AND J ALL SEASONS CONST CORP, E AND J ALL SEASONS CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**3/18/2016**
Permit Type:	**PL**
Description:	**REPLACE THREE BOILERS AND HOT WATER HEATERS WITHIN AN EXISTING THREE FAMILY DWELLING.NO CHANGE IN EGRESS OCCUPANCY OR USE.**
Permit Description:	**PLUMBING**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	
Permit Number:	220519062-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	THE PLBG & HTG SPECIALIST, HJA PLBG & HTG CORP

Date:	**10/10/2009**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y148621
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AFFORDABLE ELECTRICAL DELROY HENRY, AFFORDABLE ELECTRICAL

Date:	**3/20/2008**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y140983
Status:	AWAITING INSPECTION REQUEST
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RENAISSANCE ELECTRIC CORP STEVEN CRAWLEY, RENAISSANCE ELECTRIC CORP

ADJOINING PROPERTY FINDINGS

1010 E 172ND ST

Date:	**4/24/1997**
Permit Type:	**NB**
Description:	
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200375156-01-NB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

Date:	**3/1/1997**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y082119
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A TO Z ELEC'L CONTRG CORP R HANLEY

ADJOINING PROPERTY FINDINGS

Date: **11/22/1996**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200375156-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: DUO PLBG. & HTG. CORP

1012 E 172ND ST

Date: **4/24/1997**
Permit Type: **NB**
Description:

Permit Description: **NEW BUILDING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200375165-01-NB
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

ADJOINING PROPERTY FINDINGS

Date: **3/1/1997**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y082118
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: A TO Z ELEC'L CONTRG CORP R HANLEY

Date: **11/22/1996**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200375165-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: DUO PLBG. & HTG. CORP

ADJOINING PROPERTY FINDINGS

1014 E 172ND ST

Date:	**4/24/1997**
Permit Type:	**NB**
Description:	
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200375174-01-NB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

Date:	**3/1/1997**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y082117
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A TO Z ELEC'L CONTRG CORP R HANLEY

ADJOINING PROPERTY FINDINGS

Date: **11/22/1996**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200375174-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: DUO PLBG. & HTG. CORP

1015 E 172ND ST

Date: **7/24/1998**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y089651
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: DORION NORTON ELECL CONT DORION NORTON, DORION NORTON ELECL CONT

Date: **12/20/1997**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y086422
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: DORION NORTON ELECL CONT DORION NORTON, DORION NORTON ELECL CONT

ADJOINING PROPERTY FINDINGS

1016 E 172ND ST

Date:	**4/24/1997**
Permit Type:	**NB**
Description:	
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200375183-01-NB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

Date:	**3/1/1997**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y082116
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A TO Z ELEC'L CONTRG CORP R HANLEY

ADJOINING PROPERTY FINDINGS

Date: **11/22/1996**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200375183-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: DUO PLBG. & HTG. CORP

JENNINGS ST

1001 JENNINGS ST

Date: **3/23/2017**
Permit Type: **PL**
Description: **INSTALLATION OF NEW PLUMBING FIXTURES, MECHANICAL WORK, HVAC SYSTEMS AND ASSOCIATED DUCTWORK.**

Permit Description: **PLUMBING**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use:
Permit Number: 220531324-02-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: VARSITY PLBG AND HTG INC

ADJOINING PROPERTY FINDINGS

Date:	**1/13/2017**
Permit Type:	**EW**
Description:	**HEREWITH FILING FOR INTERIOR RENOVATION OF EXISTING SPACE. NO CHANGE IN USE, OCCUPANCY, OR EGRESS.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220531324-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	2 SAAB CONSTRUCTION INC

Date:	**11/28/2016**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	MINOR WORK
Proposed Use:	
Permit Number:	Y180245
Status:	ADMINISTRATIVELY CLOSED (MINOR WORK)
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHARAN ELEC'L ENTERP'S IN WILLIAM NIEVES, CHARAN ELEC'L ENTERP'S IN KULWANT DEOL, CHARAN ELEC'L ENTE

Date:	**11/4/2016**
Permit Type:	
Description:	
Permit Description:	**Electrical Permit**
Work Class:	
Proposed Use:	
Permit Number:	Y179951
Status:	AWAITING INSPECTION REQUEST
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FALCON ELEC'L CONTRG CORP

ADJOINING PROPERTY FINDINGS

Date:	**6/27/2014**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y169056
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FIVE STAR ELECTRIC CORP. JOHN DILLON, FIVE STAR ELECTRIC CORP. GARY SEGAL, FIVE STAR ELECTRIC CORP.

Date:	**6/26/2014**
Permit Type:	**EW**
Description:	**PS 66X- FILED HEREWITH ENERGY ANALYSIS ASSOCIATED WITH REPLACEMENT OF EXISTING LIGHTING FIXTURES AS PER PLAN.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	201191325-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FIVE STAR ELECTRIC CORP

ADJOINING PROPERTY FINDINGS

Date:	**9/21/2013**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y165882
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHARAN ELEC'L ENTERP'S IN WILLIAM NIEVES, CHARAN ELEC'L ENTERP'S IN KULWANT DEOL, CHARAN ELEC'L ENTE

Date:	**5/9/2012**
Permit Type:	**EW**
Description:	**PROVIDE A SPLIT UNIT TYPE AIR CONDITIONING SYSTEM IN A LOCAL NETWORK (LAN) ROOM.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	MECHANICAL/HVAC
Permit Number:	201231915-01-EW-MH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MIDTOWN HVAC ENTERPRISES

ADJOINING PROPERTY FINDINGS

Date: **1/17/2012**
Permit Type:
Description:

Permit Description: **ELECTRICAL**
Work Class: REHABILITATION
Proposed Use:
Permit Number: Y158681
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: CHARAN ELEC'L ENTERP'S IN WILLIAM NIEVES, CHARAN ELEC'L ENTERP'S IN KULWANT DEOL, CHARAN ELEC'L ENTE

Date: **8/25/2011**
Permit Type:
Description:

Permit Description: **ELECTRICAL**
Work Class: REHABILITATION
Proposed Use:
Permit Number: Y157085
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: TARASIS ELECTRIC CORP. NICK MELISSINOS, TARASIS ELECTRIC CORP. NICK TARASIS, TARASIS ELECTRIC CORP.

ADJOINING PROPERTY FINDINGS

Date:	**6/29/2011**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y156369
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHARAN ELEC'L ENTERP'S IN WILLIAM NIEVES, CHARAN ELEC'L ENTERP'S IN KULWANT DEOL, CHARAN ELEC'L ENTE

Date:	**4/26/2011**
Permit Type:	**EW**
Description:	**PS66 REPLACE EXTERIOR DRS W/NEW, REPLACE ROOFING & ROOF DRAINS @ EXIT/EN TRANCE VI & VIII, INSTALL NEW CONCRETE PAVEMENT @ PLAYGROUND, REPLACE YARD DRAIN S & DRAINAGE LINES W/NEW, WATERPROOFINGEXTERIOR WALLS IN THE CELLAR USING ACRYL ATE RESIN INJECTION**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	200886728-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GAZEBO CONTRACTING INC

ADJOINING PROPERTY FINDINGS

Date:	**4/21/2011**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y155438
Status:	ADMINISTRATIVELY CLOSED (MINOR WORK)
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PULSAR ELECTRIC INC. ALLEN CHAYUT

Date:	**3/29/2011**
Permit Type:	**PL**
Description:	**PS66 REPLACE EXTERIOR DRS W/NEW, REPLACE ROOFING & ROOF DRAINS @ EXIT/EN TRANCE VI & VIII, INSTALL NEW CONCRETE PAVEMENT @ PLAYGROUND, REPLACE YARD DRAIN S & DRAINAGE LINES W/NEW, WATERPROOFINGEXTERIOR WALLS IN THE CELLAR USING ACRYL ATE RESIN INJECTION**
Permit Description:	**PLUMBING**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	
Permit Number:	200886728-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WITTMANN PLBG ASSOC INC, WITTMANN PLUMBING ASSOCAT

ADJOINING PROPERTY FINDINGS

Date:	**2/4/2011**
Permit Type:	**EW**
Description:	**PS66 REPLACE 5'OF ROOF @ PERIMETER,REPLACE MASONRY PARAPET, RAKE & REPOI NT PORTION OF EXTERIOR WALLS, REPAIR INTERIOR PLASTER, REMOVE & REPLACE 18 ROOF DRAINS**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	201011010-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WHITESTONE CONSTRUCTION C

Date:	**12/28/2010**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y154140
Status:	AWAITING INSPECTION REQUEST
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHARAN ELEC'L ENTERP'S IN WILLIAM NIEVES, CHARAN ELEC'L ENTERP'S IN KULWANT DEOL, CHARAN ELEC'L ENTE

ADJOINING PROPERTY FINDINGS

Date: **10/25/2010**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y153317
Status: ADMINISTRATIVELY CLOSED (MINOR WORK)
Valuation: $0.00
Contractor Company:
Contractor Name: CHARAN ELEC'L ENTERP'S IN WILLIAM NIEVES, CHARAN ELEC'L ENTERP'S IN KULWANT DEOL, CHARAN ELEC'L ENTE

Date: **11/13/2009**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y149081
Status: AWAITING INSPECTION REQUEST
Valuation: $0.00
Contractor Company:
Contractor Name: PULSAR ELECTRIC INC. ALLEN CHAYUT

ADJOINING PROPERTY FINDINGS

Date:	**8/7/2009**
Permit Type:	**PL**
Description:	**PS66 REPLACE 5'OF ROOF @ PERIMETER,REPLACE MASONRY PARAPET, RAKE & REPOI NT PORTION OF EXTERIOR WALLS, REPAIR INTERIOR PLASTER, REMOVE & REPLACE 18 ROOF DRAINS**
Permit Description:	**PLUMBING**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	
Permit Number:	201011010-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	VARSITY PLBG AND HTG INC

Date:	**5/22/2009**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y146701
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SAMCO ELECTRIC CORP. SILVANO TRAVALJA, SAMCO ELECTRIC CORP.

Date:	**4/2/2009**
Permit Type:	**EQ**
Description:	**PS66 FENCE IN CONJUNCTION W/ALT2 JOB**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	FENCE
Permit Number:	201015757-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WHITESTONE CONSTRUCTION C

ADJOINING PROPERTY FINDINGS

Date: **4/2/2009**
Permit Type: **EQ**
Description: **PS66 SIDEWALKSHED FOR ALT2 JOB**

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: A3 - ALTERATION TYPE 3
Proposed Use: SIDEWALK SHED
Permit Number: 201015766-01-EQ-SH
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: WHITESTONE CONSTRUCTION C

Date: **4/2/2009**
Permit Type: **EQ**
Description: **PS66 SCAFFOLD IN CONJUNCTION W/ALT2**

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: A3 - ALTERATION TYPE 3
Proposed Use: SCAFFOLD
Permit Number: 201015775-01-EQ-SF
Status: RE-ISSUED, ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: WHITESTONE CONSTRUCTION C

Date: **9/12/2008**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y143592
Status: AWAITING INSPECTION REQUEST
Valuation: $0.00
Contractor Company:
Contractor Name: PULSAR ELECTRIC INC. ALLEN CHAYUT

ADJOINING PROPERTY FINDINGS

Date:	**7/21/2008**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y142817
Status:	AWAITING INSPECTION REQUEST
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PULSAR ELECTRIC INC. ALLEN CHAYUT

Date:	**7/8/2008**
Permit Type:	**EW**
Description:	**IS286@PS66 RESTRUCTURING RMS 412 & 413 TO NEW SCIENCE LAB/DEM RM & STORAGE RM**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	MECHANICAL/HVAC
Permit Number:	201017041-01-EW-MH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ACS SYSTEM ASSOCIATES INC

ADJOINING PROPERTY FINDINGS

Date:	**7/8/2008**
Permit Type:	**EW**
Description:	**IS286@PS66 RESTRUCTURING RMS 412 & 413 TO NEW SCIENCE LAB/DEM RM & STORAGE RM**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	201017041-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	K.O. TECHNOLOGIES INC, KO TECHNOLOGIES INCORPORATED, KO TECHNOLOGIES

Date:	**7/8/2008**
Permit Type:	**PL**
Description:	**IS286@PS66 RESTRUCTURING RMS 412 & 413 TO NEW SCIENCE LAB/DEM RM & STORAGE RM**
Permit Description:	**PLUMBING**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	
Permit Number:	201017041-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	VARSITY PLBG AND HTG INC

ADJOINING PROPERTY FINDINGS

Date: **6/25/2008**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y142292
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: BOBTEK ELECTRICAL CORP. MARK BOBB, BOBTEK ELECTRICAL CORP.

Date: **4/20/2008**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y141467
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: CORE ELEC & COMMUNICATION GREGORY BARTOCCI, CORE ELEC & COMMUNICATION

Date: **4/18/2008**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y141460
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: CORE ELEC & COMMUNICATION GREGORY BARTOCCI, CORE ELEC & COMMUNICATION

ADJOINING PROPERTY FINDINGS

Date: **12/5/2007**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y139489
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: CORE ELEC & COMMUNICATION GREGORY BARTOCCI, CORE ELEC & COMMUNICATION

Date: **12/1/2006**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y134073
Status: ADMINISTRATIVELY CLOSED (MINOR WORK)
Valuation: $0.00
Contractor Company:
Contractor Name: PULSAR ELECTRIC INC. ALLEN CHAYUT

Date: **12/1/2006**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y134075
Status: ADMINISTRATIVELY CLOSED (MINOR WORK)
Valuation: $0.00
Contractor Company:
Contractor Name: PULSAR ELECTRIC INC. ALLEN CHAYUT

ADJOINING PROPERTY FINDINGS

Date: **12/1/2006**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y134074
Status: ADMINISTRATIVELY CLOSED (MINOR WORK)
Valuation: $0.00
Contractor Company:
Contractor Name: PULSAR ELECTRIC INC. ALLEN CHAYUT

Date: **9/21/2006**
Permit Type: **EQ**
Description: **PS 66-X INSTALLATION OF A HEAVY DUTY SIDEWALK SHED 120' LONG X 10' WIDE X 8' HIGH FILED IN CONJUNTION WITH DOB#200886728. NO CHANGE IN USE, EGRESS OR O CCUPANCY. SHED TO COMPLY WITH LL 33/91 AND TPPN 9/99**

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: A3 - ALTERATION TYPE 3
Proposed Use: SIDEWALK SHED
Permit Number: 200958393-01-EQ-SH
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ACE SCAFFOLD CO., INC

Date: **9/21/2006**
Permit Type: **AL**
Description:

Permit Description: **ALTERATION**
Work Class: A3 - ALTERATION TYPE 3
Proposed Use:
Permit Number: 200896888-01-AL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: GAZEBO CONTRACTING INC

ADJOINING PROPERTY FINDINGS

Date: **9/5/2006**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y133002
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: STAR ELEC'L CO., INC MIKHAIL BEKKERMAN

Date: **9/5/2006**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y133029
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: SAMCO ELECTRIC CORP. SILVANO TRAVALJA, SAMCO ELECTRIC CORP.

Date: **12/14/2005**
Permit Type: **EW**
Description: **PS66 MASONRY REPAIRS PLUS MISCELLANEOUS CONSTRUCTION**

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: OTHER CONSTRUCTION EQUIPMENT
Permit Number: 200572326-01-EW-OT
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: WHITESTONE CONSTRUCTION CORP., WHITESTONE CONSTRUCION CORP, WHITESTONE CONSTRUCTION CORP, WHITESTONE

ADJOINING PROPERTY FINDINGS

Date:	**9/30/2005**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y128902
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	EGG ELECTRIC INC. MARIAN BRODNANSKY, EGG ELECTRIC INC. JAY HELFGOTT, EGG ELECTRIC INC. LARRY STEWART

Date:	**9/26/2005**
Permit Type:	**EW**
Description:	**PS66 CONVERT EXIST CLASSRM INTO NEW PRINCIPAL OFFICE & RESTORE CLASSRMS TO THEIR ORIGINAL USE**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	200882241-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BRICKENS CONSTRUCTION,INC

ADJOINING PROPERTY FINDINGS

Date:	**9/14/2005**
Permit Type:	**EW**
Description:	**PS66 CONVERT EXIST CLASSRM INTO NEW PRINCIPAL OFFICE & RESTORE CLASSRMS TO THEIR ORIGINAL USE**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	MECHANICAL/HVAC
Permit Number:	200882241-01-EW-MH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FORSYTHE P&H CORP, FORSYTHE PLBG & HTG. CORP, FORSYTHE PLUMBING & HEAT

Date:	**7/18/2005**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y127763
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	EGG ELECTRIC INC. MARIAN BRODNANSKY, EGG ELECTRIC INC. JAY HELFGOTT, EGG ELECTRIC INC. LARRY STEWART

ADJOINING PROPERTY FINDINGS

Date: **7/16/2004**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y121782
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: C & A ELECTRICAL CORP. CLIVE JOHNSON, C & A ELECTRICAL CORP.

Date: **8/3/2001**
Permit Type: **EW**
Description:

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: OTHER CONSTRUCTION EQUIPMENT
Permit Number: 200571283-01-EW-OT
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ALPS MECHANICAL INCORPORATED, ALPS MECHANICAL INC., ALPS MECHANICAL, INCORPORATED, ALPS MECHANICAL,

Date: **8/3/2001**
Permit Type: **EW**
Description:

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: FUEL BURNING
Permit Number: 200571283-02-EW-FB
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ALPS MECHANICAL INC/DENNIS LEDUC, DEPP LE DUC, DENNIS LEDUC, DENNIS LE DUC, SAME, ALPS MECHANICAL, I

ADJOINING PROPERTY FINDINGS

Date:	**8/3/2001**
Permit Type:	**EW**
Description:	
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	FUEL STORAGE
Permit Number:	200571283-02-EW-FS
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ALPS MECHANICAL INC/DENNIS LEDUC, DEPP LE DUC, DENNIS LEDUC, DENNIS LE DUC, SAME, ALPS MECHANICAL, I

Date:	**8/3/2001**
Permit Type:	**EW**
Description:	
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	MECHANICAL/HVAC
Permit Number:	200571283-02-EW-MH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ALPS MECHANICAL INCORPORATED, ALPS MECHANICAL INC., ALPS MECHANICAL, INCORPORATED, ALPS MECHANICAL,

ADJOINING PROPERTY FINDINGS

Date: **8/3/2001**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use:
Permit Number: 200571283-03-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: A. BERWIND PLUMBING & HEATING, A BERWIND PLUMBING AND HEATING, A BERWIND PLUMBING & HEATING CO, A. B

Date: **7/5/2001**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y106216
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: D.M.P. ELECTRIC INC. DIMITRIOS PAPADOPOULOS

Date: **5/31/2001**
Permit Type: **EQ**
Description:

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: A3 - ALTERATION TYPE 3
Proposed Use: SIDEWALK SHED
Permit Number: 200586785-01-EQ-SH
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ROCKLEDGE SCAFF., ROCKLEDGE SCAFFOLD, ROCKLEGED SCAFF., ROCKLEDGE SCAAFF., ROCKLDEGE SCAFFOLD

ADJOINING PROPERTY FINDINGS

Date: **11/20/2000**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use:
Permit Number: 200403054-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: A. BERWIND PLUMBING & HEATING, A BERWIND PLUMBING AND HEATING, A BERWIND PLUMBING & HEATING CO, A. B

Date: **12/14/1999**
Permit Type: **EQ**
Description:

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: A3 - ALTERATION TYPE 3
Proposed Use: SCAFFOLD
Permit Number: 200601857-01-EQ-SF
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: PRECISION HOIST & SCAFFO*, PRECISION HOIST & CO

Date: **11/10/1999**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y096486
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: SAJIUN ELECTRIC INC. RICHARD SAJIUN, SAJIUN ELECTRIC INC. MANUEL SAJIUN, SAJIUN ELECTRIC INC.

ADJOINING PROPERTY FINDINGS

Date: **9/29/1999**
Permit Type: **EW**
Description:

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: BOILER
Permit Number: 200571283-02-EW-BL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ALPS MECHANICAL INC/DENNIS LEDUC, DEPP LE DUC, DENNIS LEDUC, DENNIS LE DUC, SAME, ALPS MECHANICAL, I

Date: **7/6/1999**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y094712
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: MICHAEL MAZZEO ELECT. COR MICHAEL MAZZEO, MICHAEL MAZZEO ELECT. COR DAVID PARKER, MICHAEL MAZZEO ELE

Date: **2/20/1999**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y092382
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: ONE ELECTR'L CONSTR. INC. ANDREW SVERDLOVE

ADJOINING PROPERTY FINDINGS

Date: **6/21/1995**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y073193
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: GEO & TED ELECTRIC CORP. G KOKAKIS

Date: **5/22/1995**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y072345
Status: NO ACCESS
Valuation: $0.00
Contractor Company:
Contractor Name: E.N.E.L. ELECTRICAL CORP RAFFAELE BORRELLI, E.N.E.L. ELECTRICAL CORP GIOVANNI DITURI, E.N.E.L. ELECT

Date: **3/11/1989**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y027979
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: TRU-VAL ELECTRIC CORP. CHRISTOPHER TOTARO, TRU-VAL ELECTRIC CORP. WILLIAM WIENER, TRU-VAL ELECTRIC C

ADJOINING PROPERTY FINDINGS

Date: **12/8/1988**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y026200
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: PRINCE ELECTRIC CORP. CEDOMIR MARA, PRINCE ELECTRIC CORP. Z MARKSTEIN, PRINCE ELECTRIC CORP.

Date: **8/31/1988**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y024388
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: FOREST ELECTRIC CORP. JOHN FOLEY, FOREST ELECTRIC CORP. P GREENBLATT, FOREST ELECTRIC CORP. HOWARD H

Date: **4/1/1988**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y017638
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: H & C WESSLER CORP H WESSLER

ADJOINING PROPERTY FINDINGS

Date: **1/28/1988**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y018061
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: WALTHAM ELECTRIC CORP. G BAIN

Date: **10/5/1987**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y015240
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: B & J ELECTRIC CO. B BOHLINGER

Date: **2/19/1987**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y009201
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: POSITIVE ELECTRO MECH COR I ZWEBNER, POSITIVE ELECTRO MECH COR, ACTIVE WIRING CO. INC. B MEIOWITZ, A

ADJOINING PROPERTY FINDINGS

Date: **12/4/1986**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y007276
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: PRINCE ELECTRIC CORP. CEDOMIR MARA, PRINCE ELECTRIC CORP. Z MARKSTEIN, PRINCE ELECTRIC CORP.

Date: **11/3/1986**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y006986
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: CHRIST GATZONIS ELEC. CON C GATZONIS

Date: **7/30/1986**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y003473
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: MILAD CONTRACTING CORP. MONET MILAD, MILAD CONTRACTING CORP. JEFFREY MILAD, MILAD CONTRACTING CORP.

ADJOINING PROPERTY FINDINGS

Date: **6/30/1986**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y002958
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: ALBROS ELECTRIC CORP. ALBERT ALICANTI, ALBROS ELECTRIC CORP. R ALICANTI, ALBROS ELECTRIC CORP.

Date: **12/21/1985**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: X14193
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: H & C WESSLER CORP H WESSLER

Date: **6/15/1985**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: X09995
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: H & C WESSLER CORP H WESSLER

ADJOINING PROPERTY FINDINGS

Date:	**9/15/1984**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	X05255
Status:	CLOSED/CANCELLED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A. S. REYNOLDS ELEC. CO., A REYNOLDS

1021 JENNINGS ST

Date:	**5/9/2013**
Permit Type:	**EW**
Description:	**PROVIDE A SPLIT UNIT TYPE AIR CONDITIONING SYSTEM IN NEW LOCAL NETWORK (LAN) CLOSET.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	MECHANICAL/HVAC
Permit Number:	201028379-01-EW-MH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MIDTOWN HVAC ENTERPRISES

ADJOINING PROPERTY FINDINGS

Date:	**2/25/2013**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	MINOR WORK
Proposed Use:	
Permit Number:	Y163138
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHARAN ELEC'L ENTERP'S IN WILLIAM NIEVES, CHARAN ELEC'L ENTERP'S IN KULWANT DEOL, CHARAN ELEC'L ENTE

Date:	**1/23/2013**
Permit Type:	**EW**
Description:	**PROVIDE A SPLIT UNIT TYPE AIR CONDITIONING SYSTEM IN NEW LOCAL NETWORK (LAN) CLOSET.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	201028379-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A.T.J. ELECTRICAL CO INC

ADJOINING PROPERTY FINDINGS

Date: **4/4/2007**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y135885
Status: ADMINISTRATIVELY CLOSED (MINOR WORK)
Valuation: $0.00
Contractor Company:
Contractor Name: CHARAN ELEC'L ENTERP'S IN WILLIAM NIEVES, CHARAN ELEC'L ENTERP'S IN KULWANT DEOL, CHARAN ELEC'L ENTE

Date: **2/5/2007**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y135134
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: CHARAN ELEC'L ENTERP'S IN WILLIAM NIEVES, CHARAN ELEC'L ENTERP'S IN KULWANT DEOL, CHARAN ELEC'L ENTE

ADJOINING PROPERTY FINDINGS

Date: **2/20/1996**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use:
Permit Number: 200329634-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: TILOS PLUMBING HEATING CORP, TILOS PLG AND HTG CORP, TILOS CONTRACTING CORP, TILOS PLG AND HEATING

Date: **11/21/1995**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use:
Permit Number: 200306267-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: TILOS PLUMBING HEATING CORP, TILOS PLG AND HTG CORP, TILOS CONTRACTING CORP, TILOS PLG AND HEATING

ADJOINING PROPERTY FINDINGS

Date: **8/25/1995**
Permit Type: **EW**
Description:

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: FIRE SUPPRESSION
Permit Number: 200329634-01-EW-FP
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ATLANTIC FIRE SERVICE CO., INC., ATLANTIC FIRE SERVICE CO INC, ATLANTIC FIRE SERVICE CO INC., ATLANT

Date: **8/1/1995**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y072921
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: HENRY KROGER ELEC. CORP H KROGER

Date: **7/20/1995**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use:
Permit Number: 200324336-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: TILOS PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **7/20/1995**
Permit Type: **EW**
Description:

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: SPRINKLER
Permit Number: 200324336-01-EW-SP
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ALLSTATE SPRINKLER CORP.

Date: **7/19/1995**
Permit Type: **EW**
Description:

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: STAND PIPE
Permit Number: 200324336-01-EW-SD
Status: RE-ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ALLSTATE SPRINKLER CORP.

Date: **6/9/1995**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: A1 - ALTERATION TYPE 1
Proposed Use:
Permit Number: 200321106-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: TILOS PLUMBING HEATING CORP, TILOS PLG AND HTG CORP, TILOS CONTRACTING CORP, TILOS PLG AND HEATING

ADJOINING PROPERTY FINDINGS

Date: **6/7/1995**
Permit Type: **EQ**
Description:

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: A3 - ALTERATION TYPE 3
Proposed Use: FENCE
Permit Number: 200326637-01-EQ-FN
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: AMERICAN REDEVELOPMENT ENTERPRIS

Date: **6/7/1995**
Permit Type: **AL**
Description:

Permit Description: **ALTERATION**
Work Class: A1 - ALTERATION TYPE 1
Proposed Use:
Permit Number: 200321106-01-AL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: AMERICAN REDEVELOPMENT ENTERPRIS

Date: **5/24/1995**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y072410
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: T. DIRUSSO ELEC'L CONT IN ROBERT LAPPETITO, T. DIRUSSO ELEC'L CONT IN ANTHONY DI RUSSO, T. DIRUSSO E

ADJOINING PROPERTY FINDINGS

Date: **3/24/1995**
Permit Type: **EW**
Description:

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: OTHER CONSTRUCTION EQUIPMENT
Permit Number: 200306267-01-EW-OT
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: AMERICAN REDEVELOPMENT ENTERPRIS

Date: **1/30/1995**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y070304
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: DOLA ELECTRICAL CO. INC ANTONIO AMENDOLA, DOLA ELECTRICAL CO. INC LUIGI AMENDOLA, DOLA ELECTRICAL CO

Date: **8/15/1986**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y003564
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: ARNOLD MIGLIACCIO & SONS ARNOLD MIGLIACCIO

ADJOINING PROPERTY FINDINGS

Date: **3/10/1986**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: X15462
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: ARNOLD MIGLIACCIO & SONS ARNOLD MIGLIACCIO

LONGFELLOW AVE

1481 LONGFELLOW AVE

Date: **1/8/2002**
Permit Type: **EW**
Description: **FILING APPLICATION TO LEGALIZE ERECTION OF METAL DEC IN REAR OF DWELLING .NO WORK TO BE DONE.NO CHANGE IN USE,EGR ESS OR OCCUPANCY.**

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: OTHER CONSTRUCTION EQUIPMENT
Permit Number: 200692036-01-EW-OT
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/10/1996**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y079744
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: A TO Z ELEC'L CONTRG CORP R HANLEY

Date: **4/25/1996**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200285128-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: DUO PLBG. & HTG. CORP

Date: **4/17/1996**
Permit Type: **NB**
Description:

Permit Description: **NEW BUILDING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200285128-01-NB
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

ADJOINING PROPERTY FINDINGS

1483 LONGFELLOW AVE

Date: **9/10/1996**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y079733
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: A TO Z ELEC'L CONTRG CORP R HANLEY

Date: **4/25/1996**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200285146-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: DUO PLBG. & HTG. CORP

ADJOINING PROPERTY FINDINGS

Date: **4/17/1996**
Permit Type: **NB**
Description:

Permit Description: **NEW BUILDING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200285146-01-NB
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

1485 LONGFELLOW AVE

Date: **10/19/2017**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y184911
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: SUNRUN SOLAR ELECTL CORP, GOLD STAR ELECT'L, INC

ADJOINING PROPERTY FINDINGS

Date:	**10/16/2017**
Permit Type:	**EW**
Description:	**FILING HEREWITH TAX ABATEMENT APPLICATION FOR INSTALLATION OF ROOF MOUNTED SOLAR PANELS. NO CHANGE IN USE, EGRESS OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	240202222-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SUNRUN INSTALLATION SVC

Date:	**9/10/1996**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y079787
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A TO Z ELEC'L CONTRG CORP R HANLEY

Date:	**4/25/1996**
Permit Type:	**PL**
Description:	
Permit Description:	**PLUMBING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200285155-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DUO PLBG. & HTG. CORP

ADJOINING PROPERTY FINDINGS

Date: **4/17/1996**
Permit Type: **NB**
Description:

Permit Description: **NEW BUILDING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200285155-01-NB
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

1487 LONGFELLOW AVE

Date: **12/17/1991**
Permit Type: **AL**
Description:

Permit Description: **ALTERATION**
Work Class: A3 - ALTERATION TYPE 3
Proposed Use:
Permit Number: 200105019-01-AL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ANTHONY FOWLER

ADJOINING PROPERTY FINDINGS

1492 LONGFELLOW AVE

Date:	**8/30/2002**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y111047
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SAFEWAY CONSTRUCTION, INC LOUIS SCARANTINO, SAFEWAY CONSTRUCTION, INC

Date:	**8/15/2002**
Permit Type:	**PL**
Description:	
Permit Description:	**PLUMBING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200730888-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	QUEENS, THE MECHANICAL CORP, QUEENS THE MECH CORP, M & J PLBG & HTG MECHANICAL CORP, M & J PLBGG. &

ADJOINING PROPERTY FINDINGS

Date: **5/31/2002**
Permit Type: **NB**
Description:

Permit Description: **NEW BUILDING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200730888-01-NB
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: JACKSON BUILDERS LLC, BELLEROSE BUILDERS, BELLROSE BUILDERS INC, JACSON BUILDERS LLC, JACKSON BUILDR

1494 LONGFELLOW AVE

Date: **8/30/2002**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y111048
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: SAFEWAY CONSTRUCTION, INC LOUIS SCARANTINO, SAFEWAY CONSTRUCTION, INC

ADJOINING PROPERTY FINDINGS

Date: **8/15/2002**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200730879-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: QUEENS, THE MECHANICAL CORP, QUEENS THE MECH CORP, M & J PLBG & HTG MECHANICAL CORP, M & J PLBGG. &

Date: **5/31/2002**
Permit Type: **EQ**
Description:

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: NB - NEW BUILDING
Proposed Use: FENCE
Permit Number: 200730879-01-EQ-FN
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: JACKSON BUILDERS LLC, BELLEROSE BUILDERS, BELLROSE BUILDERS INC, JACSON BUILDERS LLC, JACKSON BUILDR

ADJOINING PROPERTY FINDINGS

Date:	**5/31/2002**
Permit Type:	**NB**
Description:	
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200730879-01-NB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JACKSON BUILDERS LLC, BELLEROSE BUILDERS, BELLROSE BUILDERS INC, JACSON BUILDERS LLC, JACKSON BUILDR

1496 LONGFELLOW AVE

Date:	**7/3/2014**
Permit Type:	**AL**
Description:	**REPAIR FRONT ENTRANCE STAIR AS PER PLAN NO CHANGE IN USE, EGRESS OR OCCUPANCY**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	240048916-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SHAMAS CONTRACTING CO.INC

ADJOINING PROPERTY FINDINGS

Date:	**6/19/2014**
Permit Type:	**EW**
Description:	**INSTALL METAL CHIMNEY PER PLANS.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220385349-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&C HEATING SERVICES INC, A & C HEATING SERVICES IN

Date:	**5/16/2013**
Permit Type:	**AL**
Description:	**ANTENNA MODIFICATION OF EXISTING SITE. ADD TELECOM ANTENNA ON THE ROOF. ALL WORK IS IN CONFORMANCE WITH TPPN # 5/98. NO CHANGE IN USE,EGRESS OR OCCUPANCY.**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	220256425-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	NATIONAL MICROWAVE CONTRA

ADJOINING PROPERTY FINDINGS

Date:	**7/5/2012**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y160605
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HEAT TIMER SERVICE CORP. WINSTON JOHN, HEAT TIMER SERVICE CORP. A RIOS, HEAT TIMER SERVICE CORP. D S

Date:	**6/18/2012**
Permit Type:	**EW**
Description:	**EXTERIOR REPAIR WORK; BRICK POINTING, STUCCO RE-SURFACING, THORO COAT AND THEROSEAL PAINTING WINDOW ARCH REPAIR, WINDOW AND DOOR STEEL LINTEL REPLACEMENT. NO CHANGE TO EGRESS, USE OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220132201-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SHAMAS CONTRACTING CO.INC

ADJOINING PROPERTY FINDINGS

Date:	**4/17/2012**
Permit Type:	**EW**
Description:	**REPLACE BOILER AND OIL BURNER (NYC BOILER NO. MD17330-01)**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	BOILER
Permit Number:	220102261-01-EW-BL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&C HEATING SERVICES INC, A & C HEATING SERVICES IN

Date:	**4/17/2012**
Permit Type:	**EW**
Description:	**REPLACE BOILER AND OIL BURNER (NYC BOILER NO. MD17330-01)**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	FUEL BURNING
Permit Number:	220102261-01-EW-FB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&C HEATING SERVICES INC, A & C HEATING SERVICES IN

ADJOINING PROPERTY FINDINGS

Date:	**4/16/2012**
Permit Type:	**EQ**
Description:	**PROPOSED INSTALLATION OF HEAVY DUTY SIDEWALK SHED FILED FOR REMEDIAL REPAIRS AS PER PLANS. NO CHANGE IN USE OCCUPANCY OR EGRESS UNDER THIS APPLICATION. LIVE LOAD 300 PER SQUARE FEET. SIDEWALK SHED SHALL COMPLY WITH CHAPTER # 33 OF THE 2008 CODE.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	SIDEWALK SHED
Permit Number:	220179107-01-EQ-SH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	K.M.D. CONSTRUCTION INC, B H & B CONSTRUCTION INC, K.M.D. CONSTRUCTION, INC., K.M.D CONSTRUCTION INC

Date:	**4/13/2012**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y159644
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RPJ ELECTRIC CORP IRVING BAPTISTE, RPJ ELECTRIC CORP

ADJOINING PROPERTY FINDINGS

Date:	**8/2/2004**
Permit Type:	**EW**
Description:	**INSTALLING TELECOMMUNICATIONS ANTENNAS ON ROOF IN CONFORMANCE WITH TPPN 5/98. NO CHANGE IN USE,EGRESS OR OCCUPA NCY**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	200856261-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHARTER COMMUNICATIONS INC, CHARTER COMM . INC., CHARTER COMMUNNICATIONS, CHARTER COMM INC., CHART

Date:	**4/10/1995**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y071647
Status:	CLOSED/CANCELLED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DELTEX ELECTRICAL CONT. I BARRY KAPLOWITZ, DELTEX ELECTRICAL CONT. I JACOB KAPLOWITZ, DELTEX ELECTRI

ADJOINING PROPERTY FINDINGS

Date: **3/25/1992**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y050757
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: ROBIN ELECTRICAL CO., INC LAURENCE ROBIN, ROBIN ELECTRICAL CO., INC ARTHUR ROBIN, ROBIN ELECTRICAL C

Date: **11/6/1991**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y048094
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: M & H ELEC. CONTR'G. CO. J MAULER

Date: **6/15/1990**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y037741
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: A.J.A. ELECTRIC CORP. JOHN IZZO

ADJOINING PROPERTY FINDINGS

Date: **7/17/1989**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y030550
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: ENTERPRISE ELECT. CONTR B DUBBS, ENTERPRISE ELECT. CONTR ROMAN KATSNELSON, ENTERPRISE ELECT. CONTR

Date: **7/1/1989**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y030079
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: ENTERPRISE ELECT. CONTR B DUBBS, ENTERPRISE ELECT. CONTR ROMAN KATSNELSON, ENTERPRISE ELECT. CONTR

ADJOINING PROPERTY FINDINGS

1500 LONGFELLOW AVE

Date:	**7/3/2014**
Permit Type:	**AL**
Description:	**REPAIR FRONT ENTRANCE STAIR AS PER PLAN NO CHANGE IN USE, EGRESS OR OCCUPANCY**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	240048907-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SHAMAS CONTRACTING CO.INC

Date:	**6/19/2014**
Permit Type:	**EW**
Description:	**INSTALL METAL CHIMNEY PER PLANS.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220385330-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&C HEATING SERVICES INC, A & C HEATING SERVICES IN

ADJOINING PROPERTY FINDINGS

Date:	**5/22/2013**
Permit Type:	**AL**
Description:	**MODIFICATION TO EXISTING SITE. REPLACE AND ADD TELECOM ANTENNAS ON THE ROOF. ALL WORK IS IN CONFORMANCE WITH TPPN #5/98. NO CHANGE IN USE, EGRESS OR OCCUPANCY. INTIAL INSTALLATION APPROVED UNDER APPLICATION #200856252.**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	220252508-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	NATIONAL MICROWAVE CONTRA

Date:	**7/5/2012**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y160606
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HEAT TIMER SERVICE CORP. WINSTON JOHN, HEAT TIMER SERVICE CORP. A RIOS, HEAT TIMER SERVICE CORP. D S

ADJOINING PROPERTY FINDINGS

Date:	**6/18/2012**
Permit Type:	**EW**
Description:	**EXTERIOR REPAIR WORK; BRICK POINTING, STUCCO RE-SURFACING, THORO COAT AND THEROSEAL PAINTING WINDOW ARCH REPAIR, WINDOW AND DOOR STEEL LINTEL REPLACEMENT. NO CHANGE TO EGRESS, USE OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220132185-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SHAMAS CONTRACTING CO.INC

Date:	**4/17/2012**
Permit Type:	**EW**
Description:	**REPLACE BOILER AND OIL BURNER (NYC BOILER NO. MD45916-01)**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	BOILER
Permit Number:	220100101-01-EW-BL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&C HEATING SERVICES INC, A & C HEATING SERVICES IN

Date:	**4/17/2012**
Permit Type:	**EW**
Description:	**REPLACE BOILER AND OIL BURNER (NYC BOILER NO. MD45916-01)**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	FUEL BURNING
Permit Number:	220100101-01-EW-FB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&C HEATING SERVICES INC, A & C HEATING SERVICES IN

ADJOINING PROPERTY FINDINGS

Date:	**4/12/2012**
Permit Type:	**EQ**
Description:	**PROPOSED INSTALLATION OF HEAVY DUTY SIDEWALK SHED FILED FOR REMEDIAL REPAIRS AS PER PLANS. NO CHANGE IN USE OCCUPANCY OR EGRESS UNDER THIS APPLICATION. LIVE LOAD 300 PER SQUARE FEET. SIDEWALK SHED SHALL COMPLY WITH CHAPTER # 33 OF THE 2008 CODE.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	SIDEWALK SHED
Permit Number:	220178493-01-EQ-SH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	K.M.D. CONSTRUCTION INC, B H & B CONSTRUCTION INC, K.M.D. CONSTRUCTION, INC., K.M.D CONSTRUCTION INC

Date:	**4/10/2012**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y159597
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RPJ ELECTRIC CORP IRVING BAPTISTE, RPJ ELECTRIC CORP

ADJOINING PROPERTY FINDINGS

Date:	**8/2/2004**
Permit Type:	**EW**
Description:	**INSTALLING TELECOMMUNICATIONS CABINETS W ITH RELATED DUNNAGE AND ANTENNA ON ROOF IN CONFORMANCE WITH TPPN #5/98. NO CHANGE IN USE,EGRESS OR OCCUPANCY**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	200856252-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHARTER COMMUNICATIONS INC, CHARTER COMM . INC., CHARTER COMMUNNICATIONS, CHARTER COMM INC., CHART

Date:	**9/8/1997**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y084920
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GILSTON ELEC. MAINT. CORP HARVEY GILSTON, GILSTON ELEC. MAINT. CORP

ADJOINING PROPERTY FINDINGS

Date: **9/8/1997**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y084921
Status: AWAITING INSPECTION REQUEST
Valuation: $0.00
Contractor Company:
Contractor Name: GILSTON ELEC. MAINT. CORP HARVEY GILSTON, GILSTON ELEC. MAINT. CORP

Date: **4/10/1995**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y071652
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: DELTEX ELECTRICAL CONT. I BARRY KAPLOWITZ, DELTEX ELECTRICAL CONT. I JACOB KAPLOWITZ, DELTEX ELECTRI

Date: **11/9/1994**
Permit Type: **AL**
Description:

Permit Description: **ALTERATION**
Work Class: A1 - ALTERATION TYPE 1
Proposed Use:
Permit Number: 200290210-01-AL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: NYC DEPARTMENT OF HPD, NYC DEPT. OF HPD

ADJOINING PROPERTY FINDINGS

Date: **11/13/1992**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y055688
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: OLYMPIC ELECT WIRING CORP S KHAIT, OLYMPIC ELECT WIRING CORP MIKHAIL KOLKER, OLYMPIC ELECT WIRING CO

Date: **11/6/1991**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y048096
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: M & H ELEC. CONTR'G. CO. J MAULER

Date: **6/15/1990**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y037740
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: A.J.A. ELECTRIC CORP. JOHN IZZO

ADJOINING PROPERTY FINDINGS

Date: **11/28/1989**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y033379
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: ENTERPRISE ELECT. CONTR B DUBBS, ENTERPRISE ELECT. CONTR ROMAN KATSNELSON, ENTERPRISE ELECT. CONTR

Date: **7/1/1989**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y030080
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: ENTERPRISE ELECT. CONTR B DUBBS, ENTERPRISE ELECT. CONTR ROMAN KATSNELSON, ENTERPRISE ELECT. CONTR

ADJOINING PROPERTY FINDINGS

1504 LONGFELLOW AVE

Date:	**10/28/2016**
Permit Type:	
Description:	
Permit Description:	**Electrical Permit**
Work Class:	
Proposed Use:	
Permit Number:	Y165308
Status:	ADMIN CLOSURE (MINOR WORK)
Valuation:	$0.00
Contractor Company:	
Contractor Name:	J.A. LEE ELEC SVCS LLC

Date:	**7/3/2014**
Permit Type:	**AL**
Description:	**REPAIR FRONT ENTRANCE STAIR AS PER PLAN NO CHANGE IN USE, EGRESS OR OCCUPANCY**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	240048925-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SHAMAS CONTRACTING CO.INC

ADJOINING PROPERTY FINDINGS

Date:	**6/19/2014**
Permit Type:	**EW**
Description:	**INSTALL METAL CHIMNEY PER PLANS.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220385312-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&C HEATING SERVICES INC, A & C HEATING SERVICES IN

Date:	**7/5/2012**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y160607
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HEAT TIMER SERVICE CORP. WINSTON JOHN, HEAT TIMER SERVICE CORP. A RIOS, HEAT TIMER SERVICE CORP. D S

ADJOINING PROPERTY FINDINGS

Date:	**6/18/2012**
Permit Type:	**EW**
Description:	**EXTERIOR REPAIR WORK; BRICK POINTING, STUCCO RE-SURFACING, THORO COAT AND THEROSEAL PAINTING WINDOW ARCH REPAIR, WINDOW AND DOOR STEEL LINTELREPLACEMENT. NO CHANGE TO EGRESS, USE OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	220132149-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SHAMAS CONTRACTING CO.INC

Date:	**4/17/2012**
Permit Type:	**EW**
Description:	**REPLACE BOILER AND OIL BURNER (NYC BOILER NO. MD45915-01)**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	BOILER
Permit Number:	220100110-01-EW-BL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&C HEATING SERVICES INC, A & C HEATING SERVICES IN

Date:	**4/17/2012**
Permit Type:	**EW**
Description:	**REPLACE BOILER AND OIL BURNER (NYC BOILER NO. MD45915-01)**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	FUEL BURNING
Permit Number:	220100110-01-EW-FB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A&C HEATING SERVICES INC, A & C HEATING SERVICES IN

ADJOINING PROPERTY FINDINGS

Date:	**4/16/2012**
Permit Type:	**EQ**
Description:	**PROPOSED INSTALLATION OF HEAVY DUTY SIDEWALK SHED FILED FOR REMEDIAL REPAIRS AS PER PLANS. NO CHANGE IN USE OCCUPANCY OR EGRESS UNDER THIS APPLICATION. LIVE LOAD 300 PER SQUARE FEET. SIDEWALK SHED SHALL COMPLY WITH CHAPTER # 33 OF THE 2008 CODE.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	SIDEWALK SHED
Permit Number:	220179116-01-EQ-SH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	K.M.D. CONSTRUCTION INC, B H & B CONSTRUCTION INC, K.M.D. CONSTRUCTION, INC., K.M.D CONSTRUCTION INC

Date:	**4/13/2012**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y159643
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RPJ ELECTRIC CORP IRVING BAPTISTE, RPJ ELECTRIC CORP

ADJOINING PROPERTY FINDINGS

Date:	**1/23/2012**
Permit Type:	
Description:	
Permit Description:	**ELECTRICAL**
Work Class:	REHABILITATION
Proposed Use:	
Permit Number:	Y158756
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ELMAC ELECTRIC INC. PETER MILEVSKI, ELMAC ELECTRIC INC. RAYMOND JOHNSON, ELMAC ELECTRIC INC.

Date:	**12/14/2010**
Permit Type:	**AL**
Description:	**INSTALLING PROPOSED STEEL STAIRS AND SAFETY RAILINGS ON ROOF. ALL WORK IN CONF ORMANCE WITH TPPN #5/98. NO CHANGE IN USE, EGRESS, OR OCCUPANCY.**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	220091371-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PRIORE CONSTRUCTION SVCS

ADJOINING PROPERTY FINDINGS

Date:	**3/27/2009**
Permit Type:	**AL**
Description:	**INSTALLATION ADDITIONAL TELECOMMUNICATIONS CABINETS WITH RELATED DUNNAGE ON RO OF IN CONFORMANCE WITH TPPN#5/98.INITIAL INSTALLATION APPROVED UNDER APPLICATI ON #200856270.NO CHANGE IN USE,EGRESS OR OCCUPANCY.**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	210114320-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	TELCOM ENGINEERING GP INC

Date:	**2/4/2005**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y125369
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ARNOLD FINKELSTEIN

ADJOINING PROPERTY FINDINGS

Date:	**8/2/2004**
Permit Type:	**EW**
Description:	**INSTALLING TELECOMMUNICATIONS ANTENNAS ON ROOF IN CONFORMANCE WITH TPPN #5/98. NO CHANGE IN USE,EGRESS OR OCCUP ANCY**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	200856270-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHARTER COMMUNICATIONS INC, CHARTER COMM . INC., CHARTER COMMUNNICATIONS, CHARTER COMM INC., CHART

Date:	**6/18/2004**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y121609
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ASSOCIATED ELEC CONT OF N MICHAEL MURPHY, ASSOCIATED ELEC CONT OF N L GODELL, ASSOCIATED ELEC CONT O

ADJOINING PROPERTY FINDINGS

Date: **11/16/2003**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y118447
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: J.A. LEE ELECTRIC, INC. JOHN LEE, J.A. LEE ELECTRIC, INC.

Date: **11/3/2003**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y118275
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: J.A. LEE ELECTRIC, INC. JOHN LEE, J.A. LEE ELECTRIC, INC.

Date: **10/29/2003**
Permit Type: **EW**
Description: **CREATING TELECOMMUNICATIONS ROOM WITH HV AC IN BASEMENT. RELATED ANTENNA AND CONDENSING UNITS ON ROOF. ALL IN CONFORMANCE WITH TPPN # 5/98. NO CHANGE TO USE EGRESS OR OCCUPANCY.**

Permit Description: **EQUIPMENT WORK**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use: MECHANICAL/HVAC
Permit Number: 200713932-01-EW-MH
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: EMPIRE TELECOM USA,LLC

ADJOINING PROPERTY FINDINGS

Date:	**10/29/2003**
Permit Type:	**EW**
Description:	**CREATING TELECOMMUNICATIONS ROOM WITH HV AC IN BASEMENT. RELATED ANTENNA AND CONDENSING UNITS ON ROOF. ALL IN CONFORMANCE WITH TPPN # 5/98. NO CHANGE TO USE EGRESS OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	200713932-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	EMPIRE TELECOM USA,LLC

Date:	**4/10/1995**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y071653
Status:	CLOSED/CANCELLED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DELTEX ELECTRICAL CONT. I BARRY KAPLOWITZ, DELTEX ELECTRICAL CONT. I JACOB KAPLOWITZ, DELTEX ELECTRI

ADJOINING PROPERTY FINDINGS

Date: **11/9/1994**
Permit Type: **AL**
Description:

Permit Description: **ALTERATION**
Work Class: A1 - ALTERATION TYPE 1
Proposed Use:
Permit Number: 200290201-01-AL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: NYC DEPARTMENT OF HPD, NYC DEPT. OF HPD

Date: **3/31/1994**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y065267
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: ROBIN ELECTRICAL CO., INC LAURENCE ROBIN, ROBIN ELECTRICAL CO., INC ARTHUR ROBIN, ROBIN ELECTRICAL C

Date: **12/23/1993**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y063756
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: ROBIN ELECTRICAL CO., INC LAURENCE ROBIN, ROBIN ELECTRICAL CO., INC ARTHUR ROBIN, ROBIN ELECTRICAL C

ADJOINING PROPERTY FINDINGS

Date: **11/6/1991**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y048095
Status: CLOSED/CANCELLED
Valuation: $0.00
Contractor Company:
Contractor Name: M & H ELEC. CONTR'G. CO. J MAULER

Date: **6/18/1990**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y037739
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: A.J.A. ELECTRIC CORP. JOHN IZZO

Date: **11/28/1989**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y033380
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: ENTERPRISE ELECT. CONTR B DUBBS, ENTERPRISE ELECT. CONTR ROMAN KATSNELSON, ENTERPRISE ELECT. CONTR

ADJOINING PROPERTY FINDINGS

Date: **7/1/1989**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y030078
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: ENTERPRISE ELECT. CONTR B DUBBS, ENTERPRISE ELECT. CONTR ROMAN KATSNELSON, ENTERPRISE ELECT. CONTR

1524 LONGFELLOW AVE

Date: **9/10/1996**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y079767
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: A TO Z ELEC'L CONTRG CORP R HANLEY

ADJOINING PROPERTY FINDINGS

Date:	**6/19/1996**
Permit Type:	**PL**
Description:	
Permit Description:	**PLUMBING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200285618-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DUO PLBG. & HTG. CORP

Date:	**5/2/1996**
Permit Type:	**NB**
Description:	
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200285618-01-NB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

ADJOINING PROPERTY FINDINGS

1526 LONGFELLOW AVE

Date: **9/10/1996**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y079783
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: A TO Z ELEC'L CONTRG CORP R HANLEY

Date: **6/19/1996**
Permit Type: **PL**
Description:

Permit Description: **PLUMBING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200285609-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: DUO PLBG. & HTG. CORP

ADJOINING PROPERTY FINDINGS

Date: **5/2/1996**
Permit Type: **NB**
Description:

Permit Description: **NEW BUILDING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 200285609-01-NB
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

1528 LONGFELLOW AVE

Date: **11/1/2017**
Permit Type:
Description:

Permit Description: **Electrical Permit**
Work Class:
Proposed Use:
Permit Number: Y185141
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: SUNRUN SOLAR ELECTL CORP, GOLD STAR ELECT'L, INC

ADJOINING PROPERTY FINDINGS

Date:	**10/28/2017**
Permit Type:	**EW**
Description:	**FILING HEREWITH TAX ABATEMENT APPLICATION FOR INSTALLATION OF ROOF MOUNTED SOLAR PANELS. NO CHANGE IN USE, EGRESS OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	240203999-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SUNRUN INSTALLATION SVC

Date:	**9/10/1996**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y079784
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A TO Z ELEC'L CONTRG CORP R HANLEY

Date:	**6/19/1996**
Permit Type:	**PL**
Description:	
Permit Description:	**PLUMBING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200285592-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DUO PLBG. & HTG. CORP

ADJOINING PROPERTY FINDINGS

Date:	**5/2/1996**
Permit Type:	**NB**
Description:	
Permit Description:	**NEW BUILDING**
Work Class:	NB - NEW BUILDING
Proposed Use:	
Permit Number:	200285592-01-NB
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MC BUILDERS, INC., CASBRO CONSTRUCTION CORP., M.C. BUILDERS INC., TRIPLE CROWN CONTRNG CORP, MC BUIL

SHERIDAN EXPY

1440 SHERIDAN EXPY

Date:	**4/22/2015**
Permit Type:	**EW**
Description:	**DOOR & STAIR RELOCATION OF EXISTING HOTEL. NO CHANGE IN USE, OCCUPANCY OR EGRESS.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	240072639-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CAPITAL CONSTRUCTION.NY I, CAPITAL 2 CONSTRUCTION &

ADJOINING PROPERTY FINDINGS

Date:	**7/9/2012**
Permit Type:	**EW**
Description:	**HEREWITH FILING FOR FUEL STORAGE AND FUEL BURNING FOR THE EMERGENCY GENERATOR. NO CHANGE TO USE OCCUPANCY OR EGRESS ASSOCIATED WITH THIS APPLICATION.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	FUEL STORAGE
Permit Number:	220137135-01-EW-FS
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PETER AGLIARDO CONTRACTOR

Date:	**2/17/2012**
Permit Type:	**EW**
Description:	**HEREWITH FILING FOR FUEL STORAGE AND FUEL BURNING FOR THE EMERGENCY GENERATOR. NO CHANGE TO USE OCCUPANCY OR EGRESS ASSOCIATED WITH THIS APPLICATION.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	FUEL BURNING
Permit Number:	220137135-01-EW-FB
Status:	IN PROCESS
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**5/22/2009**
Permit Type:	**AL**
Description:	**HEREWITH FILED FOR A 15' CURB CUT DISTANT 411 FEET SOUTH OF THE CORNER OF E.172 STREET AND SHERIDAN EXPRESSWAY. NO CHANG TO USE EGRESS OR OCCUPANCY. IN-CONJUNCTION WITH NB# 201043085**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	210064785-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DASR CORP

Date:	**5/22/2009**
Permit Type:	**AL**
Description:	**HEREWITH FILED FOR A 15' CURB CUT DISTANT 345 FEET SOUTH OF THE CORNER OF E.172 STREET AND SHERIDAN EXPRESSWAY. NO CHANG TO USE EGRESS OR OCCUPANCY. IN-CONJUNCTION WITH NB# 201043085**
Permit Description:	**ALTERATION**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	
Permit Number:	210064794-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DASR CORP

ADJOINING PROPERTY FINDINGS

Date:	**11/19/2008**
Permit Type:	**EW**
Description:	**INSTALLATION OF PLUMBING AND MECHANICAL SYSTEMS. FILED IN CONJUNCTION WITH NEW BUILDING APPLICATION # 201046242. NO CHANGE TO USE, EGRESS OR OCCUPANCY ASSOCIATED WITH THIS APPLICATION.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	MECHANICAL/HVAC
Permit Number:	201072338-01-EW-MH
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SHREE ASHTA VINAYAK INC., J A V INC, DASR CORP

Date:	**11/19/2008**
Permit Type:	**EW**
Description:	**HEREWITH FILING FOR ROOF EMERGENCY GENERATOR IN CONJUNCTION WITH NB APPLICATION # 201043085. NO CHANGE TO USE, EGRESS OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	210055081-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SHREE ASHTA VINAYAK INC., J A V INC, DASR CORP

ADJOINING PROPERTY FINDINGS

Date: **10/12/2008**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y143655
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: STAT ELECTRIC INC. HOWARD ZAMKOFF, STAT ELECTRIC INC.

Date: **10/12/2008**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y143656
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: STAT ELECTRIC INC. HOWARD ZAMKOFF, STAT ELECTRIC INC.

Date: **10/12/2008**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y143657
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: STAT ELECTRIC INC. HOWARD ZAMKOFF, STAT ELECTRIC INC.

ADJOINING PROPERTY FINDINGS

Date:	**9/19/2008**
Permit Type:	**EW**
Description:	**INSTALLATION OF SPRINKLER SYSTEM THROUGHOUT BUILDING AND SPRINKLER WATER MAIN FILED IN CONJUNCTION WITH NEW BUILDING APPLICATION # 201046242. NO CHANGE TO USE, EGRESS OR OCCUPANCY ASSOCIATED WITH THIS APPLICATION.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	SPRINKLER
Permit Number:	201066826-01-EW-SP
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AJIT ONE MECH&GEN'L CONTR, HAR JI PLUMBING& HEAT COR, AJIT ONE MECHANICAL & GEN, HAR JI PLBG & HTG C

Date:	**9/5/2008**
Permit Type:	**PL**
Description:	**INSTALLATION OF SPRINKLER SYSTEM THROUGHOUT BUILDING AND SPRINKLER WATER MAIN FILED IN CONJUNCTION WITH NEW BUILDING APPLICATION # 201046242. NO CHANGE TO USE, EGRESS OR OCCUPANCY ASSOCIATED WITH THIS APPLICATION.**
Permit Description:	**PLUMBING**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	
Permit Number:	201066826-01-PL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AJIT ONE MECH&GEN'L CONTR, HAR JI PLUMBING& HEAT COR, AJIT ONE MECHANICAL & GEN, HAR JI PLBG & HTG C

ADJOINING PROPERTY FINDINGS

Date: **7/15/2008**
Permit Type: **SG**
Description:

Permit Description: **SIGN**
Work Class: SG - SIGN
Proposed Use:
Permit Number: 201143397-01-SG
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: TRU-ART SIGN CO. INC, L.S. SIGN CO. INC

Date: **7/15/2008**
Permit Type: **SG**
Description:

Permit Description: **SIGN**
Work Class: SG - SIGN
Proposed Use:
Permit Number: 201143404-01-SG
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: TRU-ART SIGN CO. INC, L.S. SIGN CO. INC

Date: **7/15/2008**
Permit Type: **SG**
Description:

Permit Description: **SIGN**
Work Class: SG - SIGN
Proposed Use:
Permit Number: 201143413-01-SG
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: TRU-ART SIGN CO. INC, L.S. SIGN CO. INC

ADJOINING PROPERTY FINDINGS

Date: **6/9/2008**
Permit Type: **NB**
Description:

Permit Description: **NEW BUILDING**
Work Class: NB - NEW BUILDING
Proposed Use:
Permit Number: 201043085-01-NB
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: DASR CORP, DASR CORP., ASR CORP.

Date: **6/3/2008**
Permit Type: **EQ**
Description:

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: NB - NEW BUILDING
Proposed Use: FENCE
Permit Number: 201043085-01-EQ-FN
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: DASR CORP, DASR CORP., ASR CORP.

Date: **3/12/2007**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y135218
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: STAR ELEC'L CO., INC MIKHAIL BEKKERMAN

ADJOINING PROPERTY FINDINGS

Date:	**1/25/2007**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y134716
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GENMAR ELECT. CONT'G CORP SALVATORE FILOTEO, GENMAR ELECT. CONT'G CORP

Date:	**1/5/2007**
Permit Type:	**EQ**
Description:	**Install pipe scaffolding for exterior work. No change in use, egress opr occupancy.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	SCAFFOLD
Permit Number:	201097767-01-EQ-SF
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	COLGATE SCAFFOLDING, BS CONSTRACTING, VLAD RESTORATION, PHOENIX BUILDING RESTORER, J & G GENERAL CON

ADJOINING PROPERTY FINDINGS

Date:	**11/7/2006**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y133769
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GENMAR ELECT. CONT'G CORP SALVATORE FILOTEO, GENMAR ELECT. CONT'G CORP

Date:	**10/30/2006**
Permit Type:	**EW**
Description:	**HEREWITH FILED FOR FOUNDATION AND STRUCTURAL ONLY. IN-CONJUNCTION WITH NB# 201043085. NO CHANGE TO USE, EGRESS OR OCCUPANCY.**
Permit Description:	**EQUIPMENT WORK**
Work Class:	A2 - ALTERATION TYPE 2
Proposed Use:	OTHER CONSTRUCTION EQUIPMENT
Permit Number:	201046242-01-EW-OT
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DASR CORP, DASR CORP., ASR CORP.

ADJOINING PROPERTY FINDINGS

Date: **9/1/2006**
Permit Type: **PL**
Description: **INSTALLATION OF PLUMBING AND MECHANICAL SYSTEMS. FILED IN CONJUNCTION WITH NEW BUILDING APPLICATION # 201046242. NO CHANGE TO USE, EGRESS OR OCCUPANCY ASSOCIATED WITH THIS APPLICATION.**

Permit Description: **PLUMBING**
Work Class: A2 - ALTERATION TYPE 2
Proposed Use:
Permit Number: 201072338-01-PL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: BEDROCK PLBG. & HTG., INC

Date: **5/15/2006**
Permit Type: **EQ**
Description:

Permit Description: **CONSTRUCTION EQUIPMENT**
Work Class: DM - FULL DEMOLITION
Proposed Use: FENCE
Permit Number: 201053055-01-EQ-FN
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ALWAYS FIRST, INC

Date: **5/15/2006**
Permit Type: **DM**
Description:

Permit Description: **DEMOLITION & REMOVAL**
Work Class: DM - FULL DEMOLITION
Proposed Use:
Permit Number: 201053055-01-DM
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: ALWAYS FIRST, INC

ADJOINING PROPERTY FINDINGS

W FARMS RD

1471 W FARMS RD

Date:	**6/3/2013**
Permit Type:	**DM**
Description:	**FULL DEMOLITION OF ONE STORY STRUCTURE USING MECHANICAL MEANS.**
Permit Description:	**DEMOLITION & REMOVAL**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	
Permit Number:	220255140-01-DM
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WORLD CLASS DEMOLITION CO

Date:	**5/29/2013**
Permit Type:	**EQ**
Description:	**FULL DEMOLITION OF ONE STORY STRUCTURE USING MECHANICAL MEANS.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	FENCE
Permit Number:	220255140-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WORLD CLASS DEMOLITION CO

ADJOINING PROPERTY FINDINGS

Date: **11/27/1990**
Permit Type: **AL**
Description:

Permit Description: **ALTERATION**
Work Class: A1 - ALTERATION TYPE 1
Proposed Use:
Permit Number: 200083934-01-AL
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name:

1481 W FARMS RD

Date: **5/29/2013**
Permit Type: **DM**
Description: **FULL DEMOLITION OF TWO STORY WOOD FRAME HOUSE, USING MECHANICAL MEANS.**

Permit Description: **DEMOLITION & REMOVAL**
Work Class: DM - FULL DEMOLITION
Proposed Use:
Permit Number: 220257709-01-DM
Status: ISSUED
Valuation: $0.00
Contractor Company:
Contractor Name: WORLD CLASS DEMOLITION CO

ADJOINING PROPERTY FINDINGS

Date:	**5/29/2013**
Permit Type:	**EQ**
Description:	**FULL DEMOLITION OF TWO STORY WOOD FRAME HOUSE, USING MECHANICAL MEANS.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	FENCE
Permit Number:	220257709-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WORLD CLASS DEMOLITION CO

Date:	**11/27/1990**
Permit Type:	**AL**
Description:	
Permit Description:	**ALTERATION**
Work Class:	A1 - ALTERATION TYPE 1
Proposed Use:	
Permit Number:	200080900-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

1493 W FARMS RD

Date:	**6/3/2013**
Permit Type:	**DM**
Description:	**FULL DEMOLITION OF THREE STORY WALK-UP HOUSE USING MECHANICAL MEANS.**
Permit Description:	**DEMOLITION & REMOVAL**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	
Permit Number:	220250680-01-DM
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WORLD CLASS DEMOLITION CO

Date:	**5/29/2013**
Permit Type:	**EQ**
Description:	**FULL DEMOLITION OF THREE STORY WALK-UP HOUSE USING MECHANICAL MEANS.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	FENCE
Permit Number:	220250680-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WORLD CLASS DEMOLITION CO

ADJOINING PROPERTY FINDINGS

Date: **2/28/2008**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y140615
Status: AWAITING INSPECTION REQUEST
Valuation: $0.00
Contractor Company:
Contractor Name: SCIENTIFIC ELEC. CO. INC THOMAS JOCELYN III, SCIENTIFIC ELEC. CO. INC RICHARD DEMADONA, SCIENTIFIC E

Date: **3/18/1993**
Permit Type:
Description:

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: Y056729
Status: COMPLETED
Valuation: $0.00
Contractor Company:
Contractor Name: GENOVESE ELEC & MTN INC JOSEPH GENOVESE, JR., GENOVESE ELEC & MTN INC JOSEPH GENOVESE

ADJOINING PROPERTY FINDINGS

Date:	**3/4/1993**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y056730
Status:	COMPLETED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GENOVESE ELEC & MTN INC JOSEPH GENOVESE, JR., GENOVESE ELEC & MTN INC JOSEPH GENOVESE

1501 W FARMS RD

Date:	**6/17/2013**
Permit Type:	**DM**
Description:	**FULL DEMOLITION OF ONE STORY STRUCTURE, USING MECHANINCAL MEANS, BUILDING IN BAD DISREPAIR.**
Permit Description:	**DEMOLITION & REMOVAL**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	
Permit Number:	220247285-01-DM
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WORLD CLASS DEMOLITION CO

ADJOINING PROPERTY FINDINGS

Date:	**6/17/2013**
Permit Type:	**EQ**
Description:	**FULL DEMOLITION OF ONE STORY STRUCTURE, USING MECHANINCAL MEANS, BUILDING IN BAD DISREPAIR.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	DM - FULL DEMOLITION
Proposed Use:	FENCE
Permit Number:	220247285-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WORLD CLASS DEMOLITION CO

Date:	**2/5/2008**
Permit Type:	
Description:	
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	
Permit Number:	Y140255
Status:	AWAITING INSPECTION REQUEST
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SCIENTIFIC ELEC. CO. INC THOMAS JOCELYN III, SCIENTIFIC ELEC. CO. INC RICHARD DEMADONA, SCIENTIFIC E

Date:	**6/13/2006**
Permit Type:	**AL**
Description:	
Permit Description:	**ALTERATION**
Work Class:	A1 - ALTERATION TYPE 1
Proposed Use:	
Permit Number:	200583706-01-AL
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	QUALITY STEEL CONTRACTING, QUALITY STEEL, 1501 WEST FARMS CORP

ADJOINING PROPERTY FINDINGS

Date:	**6/13/2006**
Permit Type:	**EQ**
Description:	**A CONSTRUCTION FENCE IS PROPOSED TO BEINSTALLED ALONG WEST FARMS RD AN D BOONE AVE. 88 FEET ALONG BOONE AVE.95 FEET ALONG WEST FARMS RD. NO CHANGE T O USE OR OCCUPANCY SEE COMMENTS ITEM 16FOR FENCE LOCATION.**
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A3 - ALTERATION TYPE 3
Proposed Use:	FENCE
Permit Number:	201035968-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	QUALITY STEEL CONTRACTING, QUALITY STEEL, 1501 WEST FARMS CORP

Date:	**6/30/2005**
Permit Type:	**PL**
Description:	
Permit Description:	**PLUMBING**
Work Class:	A1 - ALTERATION TYPE 1
Proposed Use:	
Permit Number:	200583706-01-PL
Status:	RE-ISSUED, ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CASA MECHANICAL CO. INC

ADJOINING PROPERTY FINDINGS

Date:	**1/31/2001**
Permit Type:	**EQ**
Description:	
Permit Description:	**CONSTRUCTION EQUIPMENT**
Work Class:	A1 - ALTERATION TYPE 1
Proposed Use:	FENCE
Permit Number:	200583706-01-EQ-FN
Status:	ISSUED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	QUALITY STEEL CONTRACTING, QUALITY STEEL, 1501 WEST FARMS CORP

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

Appendix J

Appendix J

Phase I ESA Report: 1460 Sheridan Expressway

LCS INC.
Environmental and Real Estate Consultants

ASTM E1527-13 All Appropriate Inquiries Phase I
Environmental Site Assessment Report For The Property Identified As:

Commercial Building
1460 Sheridan Expressway
Bronx, New York 10459

LCS PROJECT NO. 17N7498.39

PREPARED FOR:

SCOTT KLANSKY
STERLING NATIONAL BANK
400 RELLA BOULEVARD
MONTEBELLO, NEW YORK 10901

PREPARED BY:

LCS, INC.
40 LA RIVIERE DRIVE, SUITE 120
BUFFALO, NEW YORK 14202
(716) 845-6145, (800) 474-6802

BASED ON A SITE INVESTIGATION CONDUCTED ON OCTOBER 5, 2017, BY MANNY NAZARIO
INTERVIEWS CONDUCTED BY: MR. NAZARIO AND OVERSEEN BY JULIE DALY

HEATHER LAMB
SENIOR REVIEWER

DAVID CRANDALL
VICE PRESIDENT, DUE DILIGENCE SERVICES

Should you have any questions relative to this report, please contact Julie Daly, the LCS Senior Vice President associated with this project at (845) 406-0434.

OCTOBER 18, 2017

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1.0 EXECUTIVE SUMMARY

1.1 REPORT FINDINGS

The following details the environmental professional's specific findings of LCS' all appropriate inquiries of the above-referenced site in accordance with ASTM E1527-13. It should be noted that this Phase I Environmental Site Assessment includes only a portion of what is required by the user to comply with all appropriate inquiries (See Appendix 10.13). This section is provided for convenience to the reader. The reader is encouraged to read the entire report.

This report was requested by the user for the purpose of identifying recognized environmental conditions on-site. It is LCS' understanding that this report is not intended to meet the all appropriate inquiries provisions necessary to qualify for landowner liability protections under CERCLA (See Appendix 10.13).

1.1.1 Site Description

The subject property is identified as a commercial building located at 1460 Sheridan Expressway, Bronx Borough, New York. The subject property tax map shows the subject property to measure approximately 0.94 acres. Refer to the Section *10.2 SITEMAPS.* The subject property is developed with a single-story, 14,000 square foot structure that was constructed in 1962. The subject structure is occupied by Federal Mogul Motorparts (auto parts warehouse) and Car Gurus (auto repair training facility); no repair operations are conducted on-site. Exterior portions of the property included asphalt-paved parking and concrete sidewalks.

1.1.2 Site Reconnaissance

The subject property is located in a highly developed commercial area. Public utility companies provide the following services to the subject property: electric; natural gas; water; and sanitary sewer.

No conditions indicative of releases or threatened releases of hazardous substances or petroleum products in, on, or at the subject property were identified during the site reconnaissance.

1.1.3 Site History

The historical use of the subject property has been researched through review of historic maps, historic aerial photographs, municipal records, city directories, and/or other reasonably obtainable documents. In general, the historical site uses were determined to be as follows.

Date Range	Apparent Use	Source
At least 1896 through 1950	Portion of various railway companies	Sanborn maps
1962 through present	Developed with the existing structure with later additions and including various commercial/industrial uses including iron works, auto repair, and warehousing. Current operations include offices, auto parts warehousing, and auto training.	Sanborn maps, city directories, municipal records, site contact, and site reconnaissance

1.1.3 Site History (continued)

The following conditions indicative of releases or threatened releases of hazardous substances or petroleum products in, on, or at the subject property were identified based on LCS' historical research:

- According to Sanborn maps and city directories, the property included a portion of a railway powerhouse from at least 1896 through at least 1901, a portion of Union Railway Company (garage and storehouse and small area labeled "oils and paints") in at least 1915, and portion of a bus repair shop and paint shop in at least 1950. [Municipal records indicated on-site repair operations in at least 1947 and 2014.] In addition, iron work operations took place on-site from at least 1977 through at least 2007 and auto wrecking operations were on-site in at least 2005; according to the site contact, an auto parts company was on-site from 1999 through 2014 (potentially associated with the wrecking operations noted in the 2005 city directory).
- According to historic Sanborn maps, railway company and bus repair operations were historically conducted west adjacent to the subject property; gasoline tanks were also historically located west adjacent to the subject property. It should be noted that the west adjacent property was subsequently redeveloped with the existing Sheridan Expressway.

1.1.4 Regulatory Information

A review of regulatory database information and any additional regulatory information reviewed by LCS identified the following conditions indicative of releases or threatened releases of hazardous substances or petroleum products in, on, or at the subject property:

- According to the EDR report, the subject property, listed as LKQ Hunts Point Auto Parts at 1460 Sheridan Expressway, was identified as an AST facility with one 275-gallon hydraulic oil AST and one 276-gallon transmission fluid AST installed in 2012 and closed/removed in 2013 and one 275-gallon waste oil AST, one 275-gallon oil AST, and one 1,000-gallon waste oil AST installed in 2012 and closed/removed in 2014.
- The following adjacent sites were identified in the EDR report:
    - A west adjacent site, NYCDEP at 1508 Boone Avenue, was identified as a Former RCRA Generator with no violations listed and within the Manifest database due to the RCRA listing.
    - A west adjacent site, J & A Auto Service at 1471 West Farms Road, was identified as the following:
        - UST facility
        - RCRA-CESQG with no violations listed and within the Manifest database due to the RCRA listing
        - NY Spills site with the following releases:
            - Spill No. 9913455 which involved oil at the bottom of a manhole and is classified as "inactive."
            - Spill No. 0300164 involved the discovery of impact following a tank removal and is classified as "inactive."

1.1.5 Interviews

Interviews were conducted with various municipal representatives and/or other persons knowledgeable about the subject property.

No conditions indicative of releases or threatened releases of hazardous substances or petroleum products in, on, or at the subject property were identified based on these interviews, other than as included above.

1.1.6 Other Findings

LCS did not identify additional significant potential concerns.

1.2 SUMMARY

FINDINGS

This assessment has revealed no evidence of recognized environmental conditions[1] in connection with the subject property except for the following:

- According to Sanborn maps and city directories, the property included a portion of a railway powerhouse from at least 1896 through at least 1901, a portion of Union Railway Company (garage and storehouse and small area labeled "oils and paints") in at least 1915, and portion of a bus repair shop and paint shop in at least 1950. [Municipal records indicated on-site repair operations in at least 1947 and 2014.] In addition, iron work operations took place on-site from at least 1977 through at least 2007 and auto wrecking operations were on-site in at least 2005; according to the site contact, an auto parts company was on-site from 1999 through 2014 (potentially associated with the wrecking operations noted in the 2005 city directory).
- According to historic Sanborn maps, railway company and bus repair operations were historically conducted west adjacent to the subject property; gasoline tanks were also historically located west adjacent to the subject property. It should be noted that the west adjacent property was subsequently redeveloped with the existing Sheridan Expressway.
- According to the EDR report, a west adjacent site, J & A Auto Service at 1471 West Farms Road, was identified as an UST facility.

This assessment has revealed no evidence of controlled recognized environmental conditions[2] in connection with the subject property except for the following:

- According to the EDR report, a west adjacent site, J & A Auto Service at 1471 West Farms Road, was identified as a NY Spill site. Spill No. 9913455 involved oil at the bottom of a manhole and is classified as "inactive." Spill No. 0300164 involved the discovery of impact following a tank removal and is classified as "inactive."

---

1 *Recognized environmental condition* is defined by the ASTM E1527-13 standard as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."

2 *Controlled recognized environmental condition* is defined by the ASTM E1527-13 Standard as a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). NOTE: A condition identified as a controlled recognized environmental condition does not imply that the environmental professional has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented.

FINDINGS (continued)

While not considered recognized environmental conditions under the ASTM standard[3], LCS notes the following:

- According to the EDR report, the subject property, listed as LKQ Hunts Point Auto Parts at 1460 Sheridan Expressway, was identified as an AST facility with two ASTs installed in 2012 and closed/removed in 2013 (one 275-gallon hydraulic oil and one 275-gallon transmission fluid) and three ASTs installed in 2012 and closed/removed in 2014 (one 275-gallon waste oil, one 275-gallon oil, and one 1,000-gallon waste oil).
- The following adjacent sites were identified in the EDR report:
    - A west adjacent site, NYCDEP at 1508 Boone Avenue, was identified as a Former RCRA Generator with no violations listed and within the Manifest database due to the RCRA listing.
    - A west adjacent site, J & A Auto Service at 1471 West Farms Road, was identified as a RCRA-CESQG with no violations listed and within the Manifest database due to the RCRA listing

OPINION/RECOMMENDATIONS

1) Based on the above known or suspect recognized environmental conditions, LCS' opinion is summarized below.

Known or Suspect RECs	Rationale/Opinion	Recommendation(s)
Former on-site operations included a railway company that included that included a powerhouse, garage, bus repair, and a paint shop. After construction of the existing building in 1962, operations included iron works and auto repair.	Due to the nature of former operations, the potential exists for on-site impact.	**Unless sufficient documentation is provided, a subsurface investigation is warranted to assess the environmental conditions on-site. If such identifies a concern, additional work may be required.**
Adjacent properties of potential environmental concern	While the potential exists for on-site impact relative such adjacent listings/uses, LCS did not discover any visual evidence or records suggesting a significant on-site concern.	**No further work recommended at this time; however, should future site development/excavation work encounter any impacted soils and/or materials, such should be properly addressed at that time.**
Controlled RECs	**Rationale/Opinion**	**Recommendation(s)**
Adjacent "inactive" spills	These spills appear to have been addressed to the satisfaction of the NYSDEC.	**No further work recommended at this time.**

[3] This listing includes de minimis conditions and historic RECs. A de minimis condition is defined in ASTM E1527-13 as a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are nor recognized environmental conditions (RECs) or controlled RECs. An historic REC is defined as a past release of any hazardous substance or petroleum product that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

OPINION/RECOMMENDATIONS (continued)

2) A full asbestos inspection was not completed. Based on LCS' limited observations, as suspected ACMs were not friable or greatly damaged, the materials can remain in-place. However, should significant renovations or demolition be anticipated, state and federal regulations require an asbestos survey and proper handling and disposal of ACMs. If such renovations or demolition is anticipated, costs for addressing ACMs should be provided in any project estimates.

3) A full lead-based paint inspection was not completed. Based on LCS' limited observations, suspect lead-based paint surfaces were not considered to be peeling or chipping at the time of the site investigation. However, caution is recommended if renovations and/or remodeling of this facility are to take place. Although the on-site operations are not residential in nature, worker safety should be considered during any future site renovations or demolition.

4) A cursory visual assessment for suspect mold was undertaken as a part of this environmental site assessment. A full mold inspection was not requested nor completed as part of this assessment. Based on LCS' limited observations, there was no visible evidence of mold and mold related odors at the time of the site inspection. It should be noted that molds can grow in hidden areas not observed during LCS' site reconnaissance. Of particular concern would be areas that experience water damage and areas of high humidity. Caution should be taken following any future water releases within the subject structure. Such water releases should be addressed immediately to help prevent the formation of the mold spores. Visual evidence of mold should be addressed immediately. It is recommended that professional remediation contractors be hired to properly address such issues.

CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of 1460 Sheridan Expressway, Bronx, New York, the subject property. Any exceptions to, or deletions from, this practice are described in Section 1.3 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the following:

- Former on-site operations included a railway company that included that included a powerhouse, garage, bus repair, and a paint shop. After construction of the existing building in 1962, operations included iron works and auto repair.
- Adjacent properties of potential environmental concern

1.3 DATA GAPS

The following data gaps[4] were encountered in completion of this inquiry:

Type of Data Gap	Details of Data Gap	Sources Consulted	Significance
Historical Use	Historical uses for each five year period were not obtained.	Aerial photographs, Sanborn maps, city directories, topographic map, municipal records, and site contact	While data for each year was not obtained, the data did provide relatively complete records of site uses.
Site Reconnaissance	LCS' observations of the subject property were limited due to stored materials. The roof of the subject structure was not inspected as it was not readily accessible.	N/A	Not anticipated to be significant, based on information reviewed to date.
Regulatory Review	Complete responses from regulatory agencies yet to be received.	NYSDEC, NYCDEP, and NYCDOH	Unknown; however, not anticipated to be significant based on information reviewed to date.
Interviews	LCS was not able to identify and/or contact historic owners and/or occupants.	Current owners and municipal records for historic ownership information.	Unknown. LCS cannot be liable for information known to previous owners/occupants and not shared with LCS.

To the best of LCS' knowledge, the information contained in this report is true and accurate. LCS personnel have exercised due diligence in the compilation of the information contained herein appropriate to environmental professionals engaged in investigations of this sort. LCS makes no guarantees regarding the accuracy of information gained from other sources.

Refer to Section 10.12 for additional limitations.

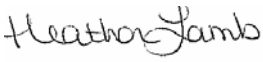
[4] A data gap is defined by 40 CFR 312.10 as "a lack of or inability to obtain information required by the standards and practices" of preparation of this document "despite good faith efforts by the environmental professional" or others to gather such information.

1.4 RELIANCE AND DECLARATION

LCS authorizes Sterling National Bank to use the above-referenced LCS report in order to determine its interest in the said subject property.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10. [See Qualifications in Section 11.]

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR part 312.



Heather Lamb
Environmental Professional

2.0 PURPOSE

The primary purpose of this study was to document the inquiry of the environmental professional for all appropriate inquiries for the subject property. The scope is intended to identify conditions indicative of releases or threatened releases of hazardous substances or petroleum products in, on, or at the subject property. LCS understands that the report is not intended for CERCLA protection for land owners.

3.0 SCOPE OF WORK

This Environmental Assessment report has been prepared in accordance with "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM E 1527-13. This standard was devised to address the site assessment portion for *Innocent Landowners, Standards for Conducting All Appropriate Inquiries* (40 CFR 312). The scope of work is intended to identify conditions indicative of releases or threatened releases of hazardous substances or petroleum products in, on, or at the subject property, via the following task.

A) Review of information provided by the person seeking liability protection relative to: environmental cleanup liens; specialized knowledge or experience regarding the subject property; relationship of the purchase price to the fair market value of the property, if the property were not contaminated; and, commonly known or reasonably available information about the subject property.

B) Interviews with past and present owners, operators and occupants.

C) Review of historical sources of information documenting the subject property's first use.

D) Review of Federal, State, tribal and local government records, as defined in 40 CFR 312.26.

E) A visual inspection of the subject property and adjoining properties (to the extent possible).

F) Preparation of this written report on all appropriate inquiries.

4.0 SUBJECT PROPERTY/VICINITY DESCRIPTION

4.1 SITE RECONNAISSANCE

A visual site review of the subject property was completed to document site conditions and to identify recognized environmental conditions. The site reconnaissance included a walkthrough of all units/spaces on-site, including interior and exterior areas with the exception of the roof, as such was not readily accessible. Stored materials also limited LCS' observations.

The following summarizes LCS' observations.

Current Owner/Operator Interviews

The owner of the subject property had been identified as West Farms Realty, LLC.

At the time of the site inspection, LCS was accompanied by Robert Rosario (Property Manager associated with the site for 17 years), who provided access and background information about the subject property. Additional background information was provided by Mr. Rosario via the LCS Owner/Operator Questionnaire. Such information has been incorporated herein and is included in the LCS Owner/Operator Questionnaire.

Overview

General Site Information	
Name of Site	Commercial Building
Site Address	1460 Sheridan Expressway
Municipality, County, State	Bronx Borough, New York
Fronting Streets	Sheridan Expressway
Site Size (acres)	0.94
Site Elevation (feet above mean sea level)	Approximately 50
Site Topography	Level at grade
Nearest Water Body (Name/Distance)	Bronx River/east adjacent
Exterior Conditions/Improvements	Asphalt-paved parking and concrete sidewalks
Building Information	
No. Buildings	One
Square Footage of Building	14,000
No. Stories	One
Basement Present?	None
Roof Type/Age	Flat/age unknown
Current Building Uses	Auto parts warehouse and auto repair training (no repair operations conducted on-site).
Heating System	Natural gas
Building Construction Date	1962
Utilities Provided	All public
Wastes Generated	General refuse and recyclables

Refer to Sections *10.2 SITE SURVEY/TAX MAP*, *10.3 SITE CONDITION REPORT* and *10.5 OWNER/ OPERATOR QUESTIONNAIRE.*

Storage Tanks

During the LCS site inspection, there was no indication of any on-site USTs or ASTs for the containment of petroleum products (e.g., fill ports, vent pipes, accessways, etc.).

See Regulatory information below for additional information regarding on-site tanks.

Hazardous and/or Regulated Materials

The only hazardous and/or regulated materials stored or utilized on the subject property are associated with sanitary cleaning and/or maintenance practices. These materials were noted properly stored within several containers of one-gallon or less within the structure. There was no evidence of any releases (staining, odors, etc.) in the area of these materials at the time of the site inspection.

There were no visible signs of unidentified substance containers (unlabeled drums, etc.) noted at the time of the site inspection.

Solid, Hazardous, and/or Regulated Waste

Operations on the subject property produce general wastes associated with commercial operations. Refuse and recyclables are stored in dumpsters and bags and transferred off-site by Avid Waste Systems.

Currently, there is no hazardous or regulated waste generated on-site.

Staining, Corrosion, Stressed Vegetation and/or Dead Vegetation

During the LCS site reconnaissance, there were no stained soils, stained pavement, stressed vegetation or corroded surfaces noted on-site.

Fill Dirt and/or Land Disposal

During the LCS site reconnaissance, there was no evidence of placement of fill dirt or land disposal activities currently or previously conducted on-site.

Wastewaters

The subject property is served by a municipal sewer system; however, the date of connection was not provided to LCS. Operations on the subject property are not believed to produce wastewaters that require treatment or monitoring.

At the time of the site inspection, neither floor drains nor storm drains were noted.

There was no evidence of a current or historic private septic system or cesspool on the subject property. Additionally, there was no evidence of any pits, ponds or lagoons used in connection with waste treatment or waste disposal.

Potable Water Supply/Wells

The subject property is served by a municipal water supply system. There was no evidence of an active or abandoned supply well, drywell, monitoring well or irrigation well on-site.

Air Emissions

There were no process exhaust systems noted on-site at the time of the LCS site investigation.

Suspect PCBs

The following suspect PCB-containing materials were noted on-site.

Suspect PCB Container	Location	Owner	Evidence of Leaks (Y/N)
Lifts (aboveground)	Two within training area	Property owner	None
Fluorescent lights*	Throughout structure	Property owner	N/A

*Utility-owned transformers and any subsequent contamination that may result are the responsibility of the utility company.
**According to ASTM, PCB-containing light ballasts are not considered a recognized environmental condition.

Suspect ACMs

A cursory visual assessment for ACMs was undertaken as a part of this environmental site assessment. At the time of the cursory inspection, there were suspect ACMs located within the subject structure. Asbestos may be present in the following partial list of suspect materials:

Materials*	Location	Condition	Approx. Quantity of Damaged Materials
Ceiling Tiles – 2' x 4'	Office and classroom areas	Good	None
Drywall and plaster	Throughout structure	Good	None
Roofing felts and/or materials	Roof	Unknown, not inspected	N/A

*It should be noted that a cursory visual assessment was conducted by LCS; the observations listed above are based on the limited areas observed during the LCS site reconnaissance, additional suspect materials may be present on-site.

Caution is recommended if renovation and/or remodeling of this facility are to take place. Prior to renovation, remodeling or demolition of this facility, a detailed asbestos inspection and sampling protocol is recommended. All federal, state and local government rules, laws and regulations must be followed.

Suspect Lead Based Paint

The Consumer Product Safety Commission banned the manufacture of lead-based paints for residential and commercial application in 1978; Federal regulations enforced this ban in 1993. Structures completed prior to 1978 may contain lead-based paints. The possibility exists for the presence of lead-based paints in the existing structure.

The painted surfaces observed by LCS were in good condition with no significant peeling or chipping paint. If the painted surfaces peel, chip and/or are intended to be removed, safety precautions should be taken to prevent inhalation or digestion. This cursory lead-based paint review did not include identification of suspect lead-based paint dust associated with windows, doors, etc.

Lead in Drinking Water

The subject property is supplied with municipal water through the City of New York. Municipal water supplies are regulated under the USEPA to follow drinking water standards. The USEPA action level applicable to municipal potable water supplies and distribution systems is 0.015 mg/L. Although the municipal water supplies are below the USEPA standard, elevated lead levels are commonly a result of the piping systems. Both lead pipes and lead solder account for this elevation in lead within the municipal supplies. No on-site water samples were collected and analyzed for the presence of lead; no testing is recommended at this time.

It should be noted that at the time of the site inspection, lead pipes were not noted within the subject structure. Such are possible due to the age of the subject structure.

Suspect Mold

Mold can germinate and colonize when a food source (i.e., drywall, wood, insulation, paper), a certain temperature and moisture are present. The speed of the growth all depends on the combination of these conditions; roof leaks often lead to accelerated mold growth. The musty odor commonly present with mold is associated with the mVOCs produced by molds. Some, but not all, molds produce a Mycotoxin that is considered a poison and may have negative health effects on humans.

At the time of the site inspection, there were no suspect mold covered areas or mold-related odors noted within the subject structure. This does not preclude the presence of molds in hidden areas (behind walls, moldings, etc.) or the potential for future mold growth.

Other Issues

At the time of the site inspection, there was no evidence of any other issues of concern associated with the subject property.

4.2 ADJACENT SITE USE

The adjacent properties were visually inspected from the subject property at the time of the site reconnaissance. The surrounding property uses include the following:

Direction	Current Use	Apparent Past Use	Concerns
North:	Park entrance	Commercial	None
South:	Vacant commercial lot (1458 Sheridan Expressway)	Commercial	None
East:	Bronx River	Same	None
West:	Residential/commercial (1512 Boone Avenue)	Same	None

4.3 SUBJECT SITE PHOTOGRAPHS

Photographs of the subject property were taken by LCS on October 5, 2017. Photographs were taken with the objective of documenting the physical condition of the subject property and any improvements thereon. Photographs are included in Appendix 10.4.

4.4 SUMMARY OF OBSERVATIONS OF POTENTIAL CONCERNS

No conditions indicative of releases or threatened releases of hazardous substances or petroleum products in, on, or at the subject property were identified during LCS' site reconnaissance.

5.0 SUBJECT PROPERTY HISTORY AND USE

The historical use of the subject property has been researched through review of historic maps, historic aerial photographs, municipal records, city directories, historic topographic maps, and/or other reasonably obtainable documents. The following summarizes LCS' historical research.

5.1 HISTORIC AERIAL PHOTOGRAPHS

Historical aerial photographs serve to reveal former topography, buildings, structures, and man made works such as canals, lagoons, and railroads that may have been altered or may no longer be in existence. However, due to the metropolitan nature of the area of the subject property and sufficient historical data collected from additional sources, aerial photographs were not reviewed for this property.

5.2 HISTORICAL MAPS/DIRECTORIES

Sanborn Maps

EDR provided, and LCS reviewed, historical Sanborn maps. Based on those maps, included within the appendix of this report, the historical uses of the subject property and those of adjacent properties are described as below.

YEAR /SITE	OCCUPANTS/PROPERTY USE
1896	
Subject Property	Developed with a portion of an apparent railway company powerhouse
North	Coal and wood storage
South	Not labeled
East	Bronx River
West	Remaining portion of railway powerhouse
1901	
Subject Property	Developed with a portion of Union Railway Company (powerhouse); one large coal pocket was noted on-site.
North	Lumber yard
South	Coal yard
East	Bronx River
West	Remaining portion of Union Railway Company (powerhouse)
1915	
Subject Property	Developed with a portion of Union Railway Company (garage and storehouse and small area labeled "oils and paints").
North	Brick cement storage
South	John Bell Company (building materials)
East	Bronx River
West	Remaining portion of Union Railway Company (garage/storehouse)

Sanborn Maps (continued)

YEAR /SITE	OCCUPANTS/PROPERTY USE
1950	
Subject Property	Developed with a portion of Third Avenue Railway Station & Surface Transportation Corporation, including bus repair, welding, storage, paint shop, and a blacksmith.
North	Auto parts and office
South	Tire storage and vacant
East	Bronx River
West	Remaining portion of Third Avenue Railway Station & Surface Transportation Corporation, including bus repair and two gasoline USTs.
1977-1981, 1983, 1985, 1986, 1989, 1991-1996, 1998, and 2001-2007	
Subject Property	Developed with a portion of the existing structure (built 1962), utilized as Iron Works. The southern portion is utilized as an iron yard.
North	Vacant/portion of expressway
South	Vacant lot
East	Bronx River
West	Expressway

It should be noted that although provided, the subject property is not included on the maps dated 1908, 1919, 1928, and 1969. In addition, although the 1903 maps suggests the property is undeveloped, the maps before and after that date show development and LCS suspects that development is not depicted on the 1903 map.

City Directories

LCS reviewed a City Directory Abstract provided by EDR, which researches former on-site occupants through available street directories. Based on EDR's research, the following occupants of the subject property were identified:

- 1927, 1931, 1940, 1949, 1956, 1961, and 1965: not listed
- 1971: Roy Killingsworth
- 1976: not listed
- 1983 and 1993: Belco Steel Corporation
- 2000: Belco Steel Corporation
- 2005: Hunts Point Auto Wreckers
- 2010 and 2014: not listed

Historic Topographic Maps

The subject property is included on the Central Park Quadrangle Topographic Map dated 1995. Due to the extensive development in the area of the subject property, individual structures are not indicated on this map.

Other Sources

According to Robert Rosario, the existing subject structure was utilized by LKQ Hunts Point Auto Parts Corporation (1999-2014) and the land was utilized as a parking lot by East End Parking (2010-2017).

5.3 MUNICIPAL RECORDS

Municipal research available through local municipalities was completed by LCS and is summarized below.

Subject Property Information	
Sources	www.propertyshark.com and www.oasisnyc.net, and www.nyc.gov
BL No.	3017-74
Size (acres)	0.94
Current Owner	West Farms Realty, LLC
Past Owners	None listed
Square Footage of Buildings	14,000
Date of Construction	1965
Utilities Provided	Not listed

Permits for the subject property include the following.

Permit Date	Nature of Permit
1947	Certificate of Occupancy for an auto repair shop
2014	Renovation of auto repair shop

There was no indication of historic heating systems.

The Abstract of Title Search for the subject property was not available for review.

5.4 PREVIOUS STUDY

No previous studies were supplied to LCS for review relative to the subject property.

5.5 SUMMARY OF HISTORIC USES

The historical use of the subject property has been researched through review of historic maps, historic aerial photographs, municipal records, city directories and/or other reasonably obtainable documents, as detailed below.

Date Range	Apparent Use	Source
At least 1896 through 1950	Portion of various railway companies	Sanborn maps
1962 through present	Developed with the existing structure with later additions and including various commercial/industrial uses including iron works, auto repair, and warehousing. Current operations include offices, auto parts warehousing, and auto training.	Sanborn maps, city directories, municipal records, site contact, and site reconnaissance

5.5 SUMMARY OF HISTORIC USES (continued)

The following conditions indicative of releases or threatened releases of hazardous substances or petroleum products in, on, or at the subject property were identified based on LCS' historical research:

- According to Sanborn maps and city directories, the property included a portion of a railway powerhouse from at least 1896 through at least 1901, a portion of Union Railway Company (garage and storehouse and small area labeled "oils and paints") in at least 1915, and portion of a bus repair shop and paint shop in at least 1950. [Municipal records indicated on-site repair operations in at least 1947 and 2014.] In addition, iron work operations took place on-site from at least 1977 through at least 2007 and auto wrecking operations were on-site in at least 2005; according to the site contact, an auto parts company was on-site from 1999 through 2014 (potentially associated with the wrecking operations noted in the 2005 city directory).
- According to historic Sanborn maps, railway company and bus repair operations were historically conducted west adjacent to the subject property; gasoline tanks were also historically located west adjacent to the subject property. It should be noted that the west adjacent property was subsequently redeveloped with the existing Sheridan Expressway.

6.0 PHYSICAL AND HYDROGEOLOGIC SETTING

The subject property is included on the Central Park Quadrangle Topographic Map dated 1995. Regional groundwater would appear to flow in an easterly direction based on a review of geological/soils and USGS quadrangle maps.

6.1 GEOLOGY

Geologic mapping of the area reveals the underlying bedrock as belonging to the Middle Ordovician period, consisting of the Manhattan Formation, undivided. The subject property area is characterized by the pelitic schists, amphibolite, sillimanite, garnet, muscovite, biotite, plagioclase schistose gneiss, sillimanite nodules, local quartz rich layers

Surficial geologic mapping of the area indicates that the subject property is underlain primarily by till. Till, deposited beneath glacier ice, is described as being poorly sorted and variably textured (clay, silt-clay, boulder-clay).

6.2 HYDROLOGY

The subject property is situated regionally in the Bronx River Major Drainage Basin and locally within the East River Sub-Basin.

The subject property does not have any open water bodies or surficial water bodies located on-site. Surface drainage appears to flow in a direction toward the lowest elevated points on-site and/or toward the closest storm drains on-site. Localized groundwater flow would be influenced by utilities, subsurface structures, etc. A site-specific hydrogeologic study would be required to confirm specific on-site groundwater flow direction.

7.0 REGULATORY INFORMATION

Regulatory information involving the subject property was obtained through a commercial database search company, interviews with local municipalities and/or other knowledgeable persons, FOIA requests, and user-supplied information. The following summarizes LCS' regulatory research.

The following information was reviewed in order to evaluate the potential for migration on-site or onto the subject property. [Migration is defined in ASTM E1527-13 as "the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface."] This evaluation included a review of regulatory records, hydrologic information, distance to the subject property and geologic information.

The following environmental records sources were reviewed.

Source	Date Contacted	Comment
EDR	Dates for the databases are provided within the EDR report.	See 7.1 below
NYSDEC FOIA	October 5, 2017	See 7.3 below
NYCDOH FOIA	October 5, 2017	See 7.3 below
NYCDEP FOIA	October 5, 2017	See 7.3 below

7.1 DATABASE

Federal and state environmental regulatory information was provided by EDR.

[It should be noted that the search radii has been adjusted due to the metropolitan area in which the subject property is located.]

Refer to MAP FINDINGS SUMMARY pages within the EDR report for a tabulated list of databases reviewed and sites identified within specified radii.

Any sites unplottable by EDR were also reviewed, to the extent practical based on site name and address, to assess whether they are also present within their appropriate radii. Any listings for the subject property or any adjacent sites are included in the details below.

No sites were identified within the appropriate radii, except for the following:

SUBJECT PROPERTY:

According to the EDR report, the subject property, listed as LKQ Hunts Point Auto Parts at 1460 Sheridan Expressway, was identified as an AST facility with one 275-gallon hydraulic oil AST and one 276-gallon transmission fluid AST installed in 2012 and closed/removed in 2013 and one 275-gallon waste oil AST, one 275-gallon oil AST, and one 1,000-gallon waste oil AST installed in 2012 and closed/removed in 2014.

ADJACENT SITES:

The following adjacent properties were identified in the EDR report:

- A west adjacent site, NYCDEP at 1508 Boone Avenue, was identified as a Former RCRA Generator with no violations listed and within the Manifest database due to the RCRA listing.
- A west adjacent site, J & A Auto Service at 1471 West Farms Road, was identified as the following:
    - UST facility
    - RCRA-CESQG with no violations listed and within the Manifest database due to the RCRA listing
    - NY Spills site with the following releases:
        - Spill No. 9913455 which involved oil at the bottom of a manhole and is classified as "inactive."
        - Spill No. 0300164 involved the discovery of impact following a tank removal and is classified as "inactive."

OTHER LISTINGS:

The following sites of potential environmental concern were identified in the EDR report:

There is one NYSDEC listed hazardous waste site (equivalent to NPL sites) located within a one-mile radius of the subject property. This site is located over one-half mile from the subject property. This information is not considered a recognized environmental condition at the subject property based on the listed site due to the distance to the subject property.

There are six NYSDEC listed spill sites attributed to LTANKs and 58 additional NY Spill sites located within a one-quarter mile radius of the subject property. Of these spill sites, two are still considered "active" by the NYSDEC, while the remaining sites are classified as either "inactive" or "closed." [A status of "closed" indicates the spill was remediated and the NYSDEC file closed with no further remediation required. A status of "inactive" indicates the contamination may remain but no further remediation is required. A status of "active" indicates further remediation or investigation is necessary.] The closest "active" site (1277 Bronx River Avenue) is located approximately 485 feet from the subject property and involved a fuel oil leak to soil. Based upon this limited information, this release is not anticipated to pose a significant concern at the subject property. In addition, LCS' experience suggests the property owner would not be liable for on-site contamination that resulted from such an off-site release. This information is not a recognized environmental condition at the subject property based on the listed spill sites due to the "closed" or "inactive" status of most of the listed spills and/or the distance to the subject property.

There is one NYSDEC listed solid waste facility located within a one-half mile radius of the subject property. This site is located over one-quarter mile from the subject property. This information is not a recognized environmental condition at the subject property based on the listed site due to the distance to the subject property.

There are two NYSDEC listed Brownfield sites located within a one-half mile radius of the subject property. Those sites are located over one-quarter mile from the subject property. This information is not considered a recognized environmental condition at the subject property based on the listed sites due to the distance to the subject property.

OTHER LISTINGS (continued):

The discussion included above regarding adjacent and/or nearby properties is based on information supplied to LCS as well as LCS' observations of nearby properties at the time of the site reconnaissance. It should be noted that any property can be affected by various sources of point and non-point source pollution. The number of reported spills and complaints in the vicinity of the subject property may be an indicator of point source pollution in the area of the subject property. Non-point sources are common in rural areas (e.g., runoff from agricultural fields). Further study would be required to positively confirm whether the subject property has been impacted by nearby properties. Refer to Section *10.6 REGULATORY INFORMATION*.

7.1.1 Regulatory Agency File and Record Review

All regulatory listings for the subject property and adjoining sites were evaluated in order to determine the need for a file and/or record review. The purpose of a regulatory file review would be to obtain sufficient information to assist in determining whether a listing indicates that RECs, Controlled RECs or de minimis conditions (including Historic RECs) exist on the subject property.

Based on that evaluation, the following was noted:

- Sufficient information was included in the database report and through USEPA and NYSDEC records to evaluate the subject property and adjacent property regulatory listings.

7.2 ENFORCEMENT ACTIONS/PERMITTED ACTIVITIES/INSTITUTIONAL CONTROLS

According to obtainable information to date, there have been no enforcement actions, orders or institutional controls imposed against the referenced subject property.

According to obtainable information to date, the subject property does appears to have been subject to tank permitting, as discussed above.

7.3 INTERVIEWS/USER PROVIDED INFORMATION

Local Regulators
FOIA requests were sent to the NYCDOH and the NYCDEP for information concerning the subject and adjacent sites. As of date of this report, a complete reply has not been received from these offices. Any response information that would alter or affect the findings and conclusions of this report will be forwarded as an addendum to this report when it is received by LCS.

State Regulators
To augment the information provided by EDR, a FOIA request was forwarded to the NYSDEC for information concerning the subject property. To date, a complete response has not been received by this agency.

7.3 INTERVIEWS/USER PROVIDED INFORMATION (continued)

User
Sterling National Bank is currently considering a lending relationship and associated mortgage for the subject property. In this regard, LCS was informed that the Bank maintains no specialized knowledge of environmental concerns at the subject property. As such, Sterling National Bank could not provide useful answers to the ASTM 1527-13 Phase I Environmental Site Assessment User Questionnaire. [As required under 40 CFR 312, only those seeking liability protection under CERCLA must provide the environmental professional certain information and documentation.]

Current Owner/Operators
LCS also requested information from the current property owner and site contact relative to pending, threatened or past litigation, administrative proceedings or any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products. No concerns were identified.

Former Owner/Operators
As required by 40 CFR 312.23, LCS has attempted to contact and interview the former owners and/or operators of the subject property to discuss historic use and storage of hazardous substances. To-date, LCS has been unable to interview any relevant previous owners or operators.

7.4 SUMMARY OF REGULATORY AND USER PROVIDED INFORMATION

The following conditions indicative of releases or threatened releases of hazardous substances or petroleum products in, on, or at the subject property were identified based on LCS' review of regulatory information:

- According to the EDR report, the subject property, listed as LKQ Hunts Point Auto Parts at 1460 Sheridan Expressway, was identified as an AST facility with one 275-gallon hydraulic oil AST and one 276-gallon transmission fluid AST installed in 2012 and closed/removed in 2013 and one 275-gallon waste oil AST, one 275-gallon oil AST, and one 1,000-gallon waste oil AST installed in 2012 and closed/removed in 2014.
- The following adjacent sites were identified in the EDR report:
    - A west adjacent site, NYCDEP at 1508 Boone Avenue, was identified as a Former RCRA Generator with no violations listed and within the Manifest database due to the RCRA listing.
    - A west adjacent site, J & A Auto Service at 1471 West Farms Road, was identified as the following:
        - UST facility
        - RCRA-CESQG with no violations listed and within the Manifest database due to the RCRA listing
        - NY Spills site with the following releases:
            - Spill No. 9913455 which involved oil at the bottom of a manhole and is classified as "inactive."
            - Spill No. 0300164 involved the discovery of impact following a tank removal and is classified as "inactive."

8.0 RADON

Radon is a radioactive gas that occurs naturally from the breakdown of uranium in rock. Radon can be found in high concentrations in soils and rock containing uranium, shale, granite, phosphate and pitchblende. Radon may also be found in soils contaminated with certain types of industrial wastes such as the byproducts from uranium or phosphate mining. Radon gas can move through small fractures in soil and rock and can seep into a structure through dirt floors, cracks in the floors and walls, drains, sumps pipes and pores. Radon has been associated with increased risks of developing lung cancer.

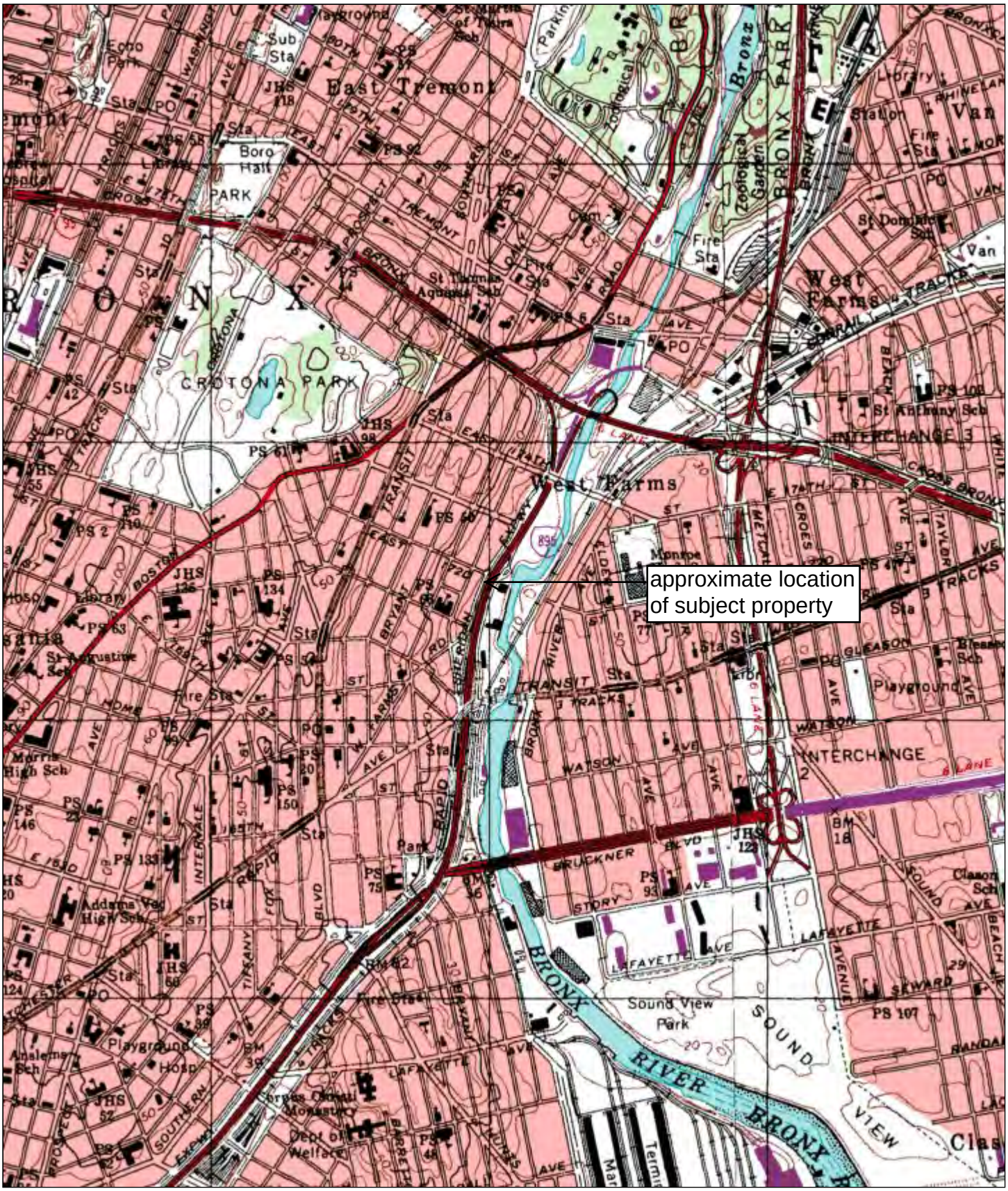
The NYSDOH Radon Detector Distribution Program report for October 2016 suggests an average basement radon reading of 1.59 pCi/L for the Bronx. The NYSDOH recommends taking measures to reduce basement radon concentration to below 4.0 pCi/L. Based on the low average radon concentration for the area of the subject property, radon does not appear to pose a concern to the subject property.

9.0 WETLANDS

Due to the highly developed area in that the subject property is located, the lack of any surficial water bodies on-site, and the lack of any surficial soils, no delineated wetlands are suspected on-site or in the immediate area of the subject property.

10.0 APPENDIX

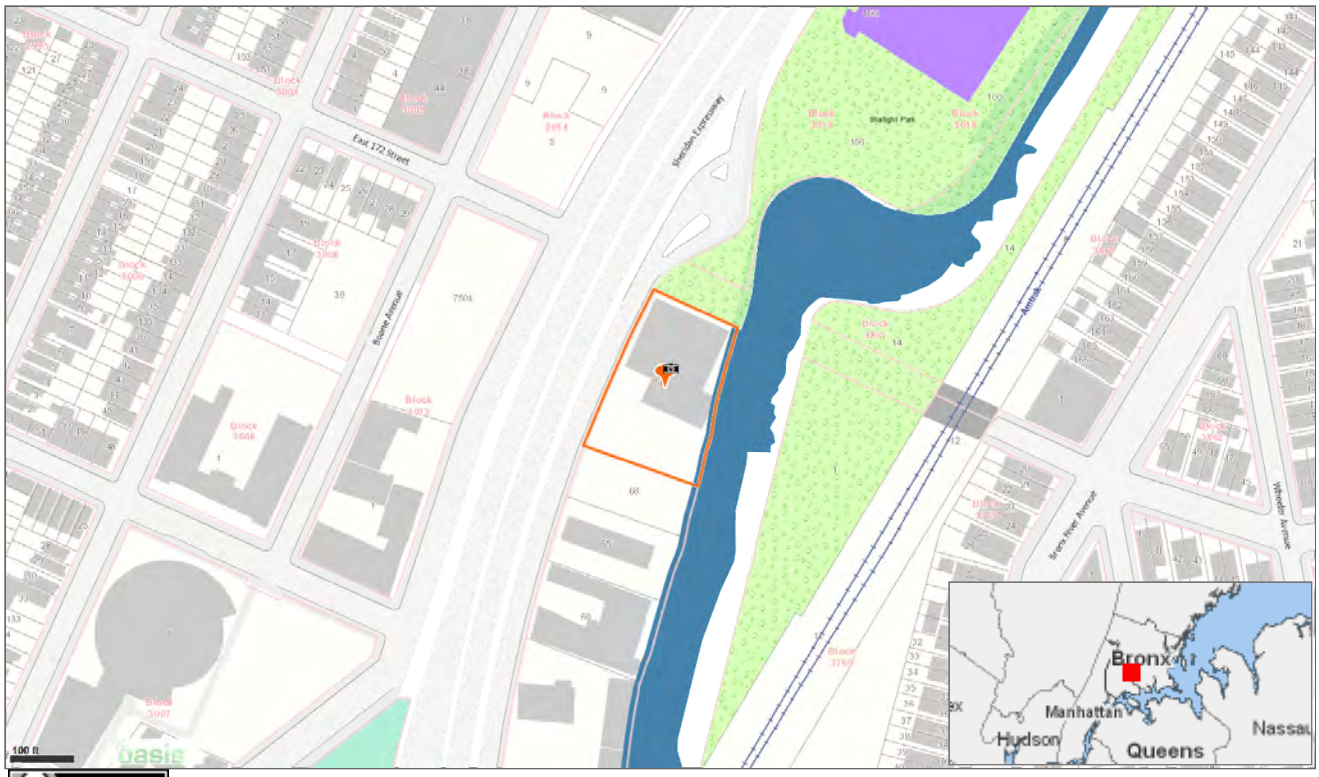
10.1 SITE LOCATION MAP/USGS QUADRANGLE MAP



Central Park, 1995

10.2 SITE MAPS

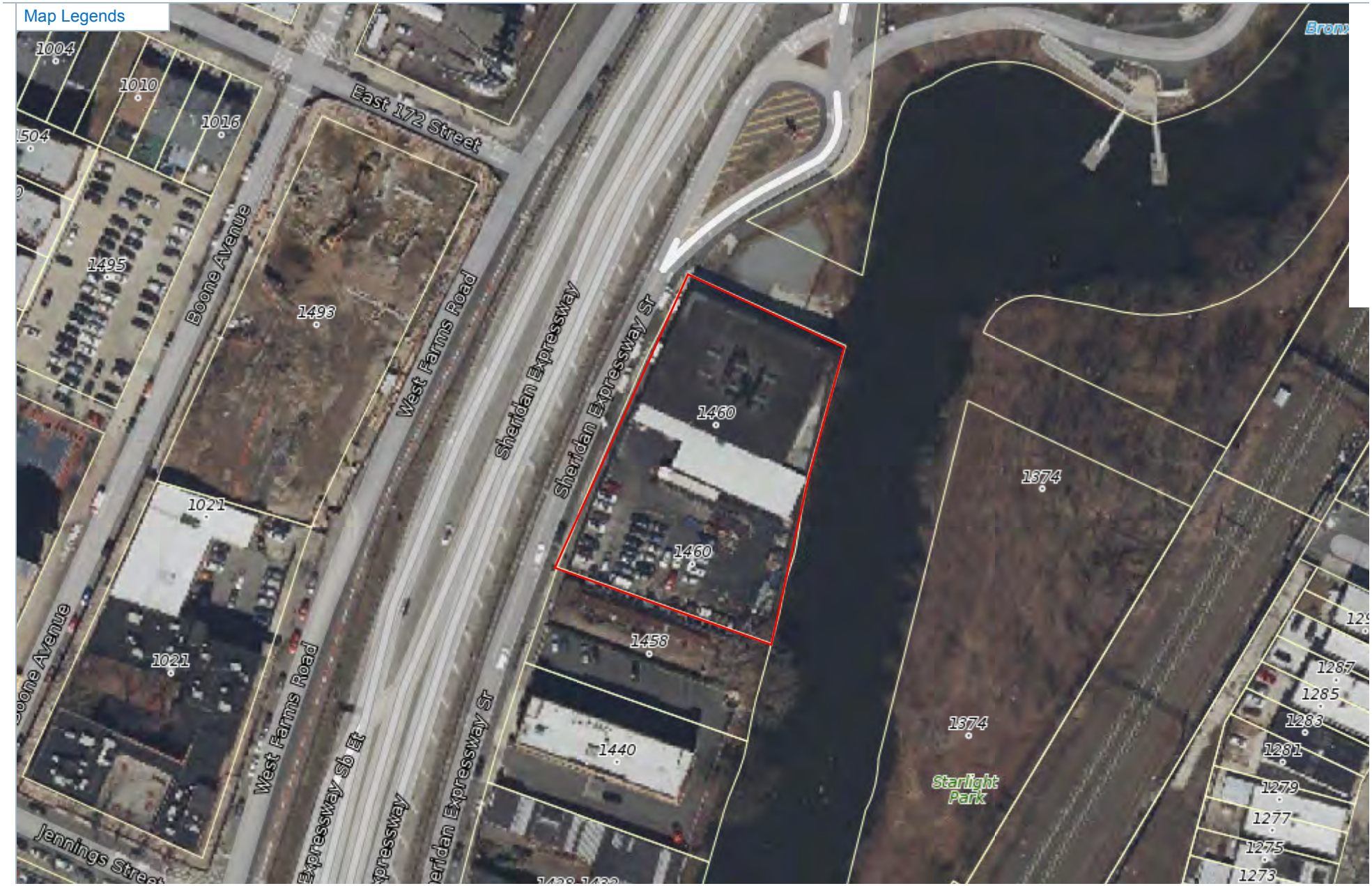
17N7498.39



Transit, Roads
Roads, ferries, names
Roads
Major Roads
Interstate Hig
Tunnels
NYC sub
Parks, Playgro
Parks &
Forested
Commur
School p
Playgrou
Green S
Golf Cou
Baseball
Tennis/B
Tracks
Cemeter
Land Use
Block/Lot Boun
(Building

(Not all items in the l

BY-NC-SA This map was created using the Open Accessible Space Information System (OASIS) website, licensed under a Creative Commons Attribution-Noncommercial-Share Alike 3.0 United States License. Visit www.oasisnyc.net for the latest information about data sources and notes about how the maps were developed. Contact oasisnyc@gc.cuny.edu with questions or comments. OASIS is developed and maintained by the Center for Urban Research, CUNY Graduate Center.


Map Legends
1004
1010
1016
504
East 172 Street
Boone Avenue
1495
1493
West Farms Road
Sheridan Expressway
Sheridan Expressway Sr
1460
1460
1374
1021
1021
1458
1440
1374
Starlight Park
Jennings Street
1287
1285
1283
1281
1279
1277
1275
1273

10.3 SITE CONDITION REPORT

Manny Nazario, October 5, 2017, 17N7498.39
1460 Sheridan Expy, Bronx, NY 10459

LCS Project No.: _____

LCS, INC. SITE CONDITION REPORT

LOAN: Purchase/refinance/foreclosure: Loan new to bank portfolio? Yes / No

DATE _____ EMPLOYEE NAME(s) _____

PRESENT: (Mr)/Ms Robert Rosario TITLE: Property Yrs. associated w/site 17

Mr/Ms _____ TITLE: Manager Yrs. associated w/site _____

QUESTIONNAIRE: completed on-site or given to: Mark Rubin Date 10/3

LIMITATIONS: Stored materials t/o warehouse

_____ **Roof Inspected?** (NO) / YES Circle one: on roof / from ground

SITE INSPECTION INCLUDED (list areas inspected here or on Page 2): Office, Classroom, Warehouse, Exterior Common Areas

****DESCRIPTION OF CURRENT OPERATIONS (be specific, include tenants):** Federal Mogul Motorparts (Training Facility & Parts distribution)

General Site Information			
Name of Site			
Site Address			
Municipality, County, State	Bronx		
Fronting Streets	Sheridan Expy		
Site Size (acres)	2.1		
Site Topography (circle)	(Level at grade) or ____% Slope (N/S/E/W)		
Nearest Water Body	Bronx River		
Exterior Conditions/ Improvements (circle)	Outbuildings (#/type)_____ (Asphalt Parking) Green areas Trees Landscaping (Concrete sidewalks)		
Locality (circle)	(Urban)	Suburban	Rural
Area Development (circle)	(Highly)	Moderately	Lightly
Area Character (circle all that apply)	Industrial	(Commercial)	Residential
	Agricultural	Wooded	Fallow
Grounds (circle all that apply)	Fill material (type/location) _____		
	Dead/stressed vegetation (amt/location) _____		
	Debris/dumping (type/location) _____		
	Storm drains (location/discharge to) _____		

UTILITIES	
	Utilities Provided (circle): Natural Gas [Supplier Con Ed] Electric [Supplier Con Ed]
	WATER (circle): PRIVATE: well location_____
	(MUNICIPAL) _____ [Supplier _____]
	SEWER (circle): SEPTIC Date of last perc test for septic
	(MUNICIPAL) [Supplier _____] Date of connection: unknown
	EVIDENCE OF FORMER SEPTIC SYSTEM? (NO) / YES, LOCATION_____

ACCORDING TO THE SITE CONTACT, PAST ON-SITE OPERATIONS INCLUDED (include current/historic structures and, **DATES**): Commercial & Parking Lot

ACCORDING TO THE SITE CONTACT, HISTORIC TENANTS INCLUDED: _____

LCS Project No.:

STRUCTURES

NOTE: ALWAYS USE ONE SHEET PER STRUCTURE

TOTAL NO. OF BUILDINGS ON-SITE: 1

Building Information	
Building Name: Comm. Building	Building Construction Date unknown
Sq. Ft. of Building: ~14,000	No. Stories: 1
Building Use(s)/Operations Commercial	
Heating System Location HVAC / Roof	**Heat Source: natural gas/electric/heating oil/wood/other**
EVIDENCE OF FORMER HEATING SYSTEM? (NO) / YES, TYPE_____	
Basement (circle) Full / Partial / (None)	
Building Condition (circle) Excellent (Good) Fair Poor	
Roof (circle) (Flat) Peaked Flashings Mansard	
Elevator (circle) (NO) / YES (location)_____ Pit? :_____	
Floor drains (circle) (NO) / YES (location)_____ Discharge to: muni / septic / surface/ other	
Grease Trap (circle) (NO) / YES (location)_____ Maintained by:_____	
Oil/Water Separator (circle) (NO) / YES (location)_____ Age:_____	
Serviced by:_____ Discharges to: muni/holding tank/other	
Sump pit (circle) (NO) / YES (location)_____ Discharge to: muni / septic / surface/ other	
Air Emission Systems (exhaust, paint booths, etc.): (NO) / YES Location/purpose_____	

NOTES:

- Warehouse Stores Auto Parts
- heated by ceiling gas heaters
- All drums in training area are empty. Only used for props.
- 2 Auto lifts within training area
- no auto related wastes

Per Manny, no repair is done; all training is simulated situations

LCS Project No.:

WELLS (DRYWELLS/INJECTION WELLS, etc.): NOTE: monitoring wells associated with USTs should be listed in TANK section below.
LOCATIONS: _____ DEPTH: _____
USE OF WELL: _____ SAMPLE RESULTS: _____

PCBs:

Suspect PCB Container	#/Location	Owner	Evidence of Leaks	Labeled as non-PCB?
Transformer (pole-mounted)		Private / Utility	NO / YES	NO / YES
Transformer (pad-mounted)		Private / Utility	NO / YES	NO / YES
Lifts Auto	2/ training area	Private	NO / YES	NA
Elevators Lifts are aboveground		Private	NO / YES	NA
Fluorescent light	+/o	Private	NA	NA

BULK STORAGE TANKS: Total # USTS on-site: _____ Total # ASTs on-site: _____
Total # vents: _____ Total # fills _____ Total # monitoring wells _____

Characteristics	Tank #1	Tank #2	Tank #3
AST/UST			
Location			
Registered/Permitted (Dates)			
Date of Last Test			
Capacity			
Product			
Single/Double Walled			
Installation Date			
Type of Monitoring System			
Any releases/spills?			
Status (circle)	Active Inactive Closed	Active Inactive Closed	Active Inactive Closed
Characteristics	**Tank #4**	**Tank #5**	**Tank #6**
AST/UST			
Location			
Registered/Permitted (Dates)			
Date of Last Test			
Capacity			
Product			
Single/Double Walled			
Installation Date			
Type of Monitoring System			
Any releases/spills?			
Status (circle)	Active Inactive Closed	Active Inactive Closed	Active Inactive Closed

EVIDENCE OF ADDITIONAL USTs (VENT PIPES/FILL PORTS, ETC): NO / YES
Location:_____
WERE ANY USTs **EXCAVATED** FROM or **FILLED** IN-PLACE ON PROPERTY? NO / YES
DATE: _____ DOCUMENTATION AVAILABLE?_____
CONDITIONS IN AREA OF FORMER USTS (stained, stressed, dead vegetation/surfaces): _____
_____

LCS Project No.:

LEAD: Year Built: unknown **(cut off date 1978)**

Material/surface	Location	Approx. Quantity of Damaged Materials
Walls	t/o	
Ceilings		
Pipes, soldering		

ANY PREVIOUS LBP TESTING CONDUCTED ON-SITE? _____ NO _____ YES (obtain copy)

ASBESTOS: ****All building materials considered suspect ACMs, no cut off date**

Materials	Sizes/ Location	Condition (good, fair, poor)	Approx. Quantity of Damaged Materials**
Ceiling Tiles 2x4 - t/o	office + Classroom areas	(G) / F / P	**
Drywall and plaster	t/o	(G) / F / P	
Floor tiles		G / F / P	
Roofing felts and/or materials		G / F / P	
Spray on fireproofing		G / F / P	
HVAC system insulating materials (pipe wrap, boiler wrap, building insulation)		G / F / P	

**** WATER STAINING SHOULD NOT BE INCLUDED HERE – INCLUDE IN SUSPECT MOLD SECTION**

IF UNDERGOING RENOVATION: IS O & M PLAN IN-PLACE? ____ WAS ACM SURVEY DONE? _____

ODORS: (circle)
SOLVENTS NATURAL GAS PETROLEUM OTHER
LOCATION: _____

SUSPECT MOLD: NO / YES

Location	Approximate Quantity

MOISTURE? NO / YES MUSTY ODORS? NO / YES
IF SO, WHERE? _____

LCS Project No.:

PERMITS (IF YES, OBTAIN COPIES): **(circle)**

NPDES/SPDES RCRA HAZ. WASTE SEWER DISCHARGE AIR EMISSIONS OTHER

HAZARDOUS MATERIALS *(INCLUDE 55-GALLON DRUMS)*:

Material	Source/ Process	Storage Container/Location	Approx. Quantity On-Site	Condition (good/fair/poor)
Cleaning/building maintenance supplies	Cleaning/ building maintenance	up to 1-gal/ bathrooms	several	G / F / P
Auto fluids	Auto repair/ resale/ other			G / F / P
Manufacturing chemicals				G / F / P
Other				G / F / P
Unlabeled Containers				G / F / P

ADEQUATE STORAGE PRACTICES? (circle) NO / YES (Add comments if no.)

MSDS'S (circle) NO / YES (COPIES OR REVIEWED ON-SITE)
HAZARD COMMUNICATION PROGRAM NO / YES

WASTES: Obtain copies of disposal receipts, if available.

Material	Source/ Process	Storage Container/ Location	Approx Quantity On-Site	Condition (good/fair/poor)	Transporter
Solid	General refuse	Dumpsters/ bags/ cans	several	G / F / P	Avid Waste
Recycling	Cardboard/ plastic/other	Dumpsters/ other	↓	G / F / P	Systems
Waste oil	Auto repair/other	UST/ AST/ drums/ other Interior/ Exterior		G / F / P	
Waste auto fluids	Auto repair/other	UST/ AST/ drums/ other Interior/ exterior		G / F / P	
Solvent	Auto repair/other	Parts washer/ other Interior/ exterior		G / F / P	
Tires	Auto repair	Interior/ exterior		G / F / P	
Batteries	Auto repair/other	Interior/ exterior		G / F / P	
Cooking grease	Cooking	Dumpster/ drums/ other Interior/ exterior		G / F / P	
Medical waste	Medical procedures	Sharps containers/ red bags		G / F / P	
Other				G / F / P	

LCS Project No.:

DRY CLEANERS: NO / YES CURRENT MACHINE TYPE? _____
AGE OF CURRENT MACHINE? _____
LOCATION OF MACHINE (basement, 1st floor, etc.): _____
FORMER MACHINE TYPE? _____
HOW LONG HAS DRY CLEANING BEEN CONDUCTED ON-SITE? _____

FILM DEVELOPING/X-RAYS:
SILVER RECOVERY SYSTEM IN PLACE? (circle) NO/YES Discharge:_____
LEAD LINED WALLS FOR X-RAY ROOMS? (circle) NO/YES Location:_____

ADJACENT PROPERTIES:
List names and type of operations adjacent and next adjacent to subject property.

Direction	Current Use	Address (MUST INCLUDE)	Comments/Concerns (including past uses, if apparent)
North	Park	Entrance	If dry cleaner, circle one: Drop off or DC Plant
South	Commercial (vacant Land)	1458 Sheridan Expy	If dry cleaner, circle one: Drop off or DC Plant
East	Bronx	River	If dry cleaner, circle one: Drop off or DC Plant
West	Residential / Commercial	1512 Boone Ave.	If dry cleaner, circle one: Drop off or DC Plant

GENERATORS: NO/YES Location:_____Firing source: gas/diesel/natural gas/other

COMPRESSORS: NO/YES Location:_____Releases? No/Yes

ADDITIONAL NOTES:

LCS Project No.:

The Site Contact and the Owner (if not the same person) must be asked the following questions:

(1) Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?

SITE CONTACT RESPONSE: None

OWNER RESPONSE: N/A

(2) Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property?

SITE CONTACT RESPONSE: None

OWNER RESPONSE: N/A

(3) Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

SITE CONTACT RESPONSE: None

OWNER RESPONSE: N/A

Also, ask for copies of any of the following:

- Environment site assessment *reports*,
- Environment compliance audit *reports*,
- Environmental permits (for example, solid waste disposal permits, *hazardous waste* disposal permits, *wastewater* permits, NPDES permits, *underground injection* permits),
- Registrations for underground and above-ground storage tanks,
- Registrations for *underground injection* systems,
- *Material safety data sheets*,
- Community right-to-know plan,
- Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.,
- *Reports* regarding hydrogeologic conditions on the *property* or surrounding area,
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the *property* or relating to *environmental liens* encumbering the *property*,
- *Hazardous waste* generator notices or *reports*,
- Geotechnical studies,
- Risk assessments, and
- Recorded activity and use limitations (AULs).

LCS INC.
Environmental and Real Estate Consultants

Project Number: 17N7498.39

Project Location: 1460 Sheridan Expressway, Bronx, 10459

Date: 10/5/2017

SITE SKETCH



NOTES: Aerial Imagery (c) 2017 Google

Not to Scale

↑
N

10.4 SITE PHOTOGRAPHS

PHOTOGRAPH VIEWS

Photo 1:



Photo 2:



Photo 3:

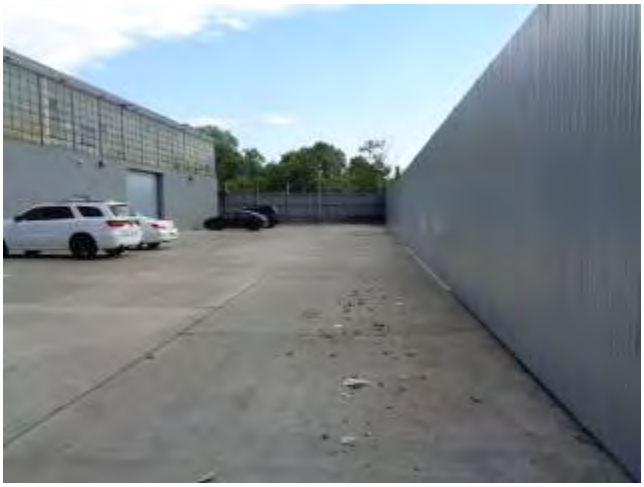


Photo 4:



Photo 1: Western view of the subject structure.

Photo 2: Southern view of the subject structure.

Photo 3: View of the on-site parking lot.

Photo 4: View of the on-site vacant lot (former parking lot).

LCS, INC. 40 LA RIVIERE DRIVE, SUITE 120 BUFFALO, NEW YORK 14202 Project No. 17N7498.39 Photo Date: 10/5/17	SITE PHOTOGRAPHS Commercial Building 1460 Sheridan Expressway Bronx, NY 10459

PHOTOGRAPH VIEWS

Photo 1:



Photo 2:

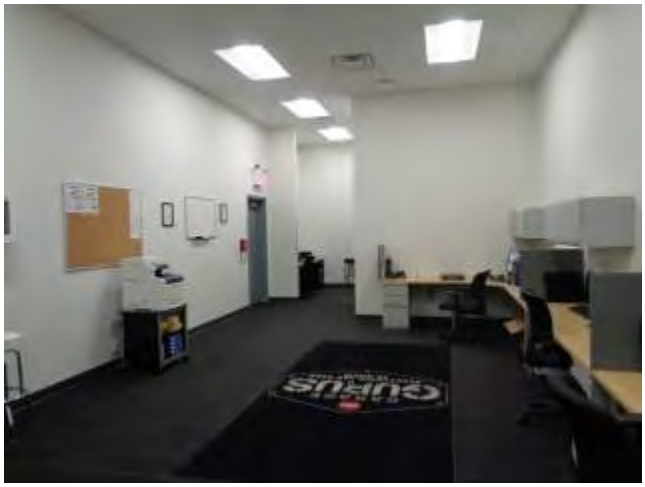


Photo 3:



Photo 4:



Photo 1: View of typical common area within the subject structure.

Photo 2: View of typical common area within the office portion of the subject structure.

Photo 3: View of typical common area within the classroom portion of the subject structure.

Photo 4: View of typical bathroom within the subject structure.

LCS, INC. 40 LA RIVIERE DRIVE, SUITE 120 BUFFALO, NEW YORK 14202 Project No. 17N7498.39 Photo Date: 10/5/17	SITE PHOTOGRAPHS Commercial Building 1460 Sheridan Expressway Bronx, NY 10459

PHOTOGRAPH VIEWS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: View of typical common area within the auto training portion of the subject structure.

Photo 2: View of typical 55-gallon drums (empty) within the subject structure.

Photo 3: View of typical common area within the warehouse portion of the subject structure.

Photo 4: View of typical gas heater within the warehouse portion of the subject structure.

LCS, INC. 40 LA RIVIERE DRIVE, SUITE 120 BUFFALO, NEW YORK 14202 Project No. 17N7498.39 Photo Date: 10/5/17	SITE PHOTOGRAPHS Commercial Building 1460 Sheridan Expressway Bronx, NY 10459

PHOTOGRAPH VIEWS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: View of the solid waste storage area.

Photo 2: View west of the subject property.

Photo 3: View north of the subject property.

Photo 4: View south of the subject property.

LCS, INC. 40 LA RIVIERE DRIVE, SUITE 120 BUFFALO, NEW YORK 14202 Project No. 17N7498.39 Photo Date: 10/5/17	SITE PHOTOGRAPHS Commercial Building 1460 Sheridan Expressway Bronx, NY 10459

10.5 OWNER/OPERATOR QUESTIONNAIRE

As required by 40 CFR 312.23, LCS has attempted to contact and interview the former owners and/or operators of the subject property to discuss historic use and storage of hazardous substances. To-date, LCS has been unable to interview any relevant previous owners or operators.

LCS, INC.
OWNER/OPERATOR QUESTIONNAIRE

PROJECT # _____ DATE: _____
SITE NAME: _____
ADDRESS: 1460 Sheridan Expressway
ABUTING STREET(S): _____

COMPLETED BY: Robert Rosario
TITLE/RELATIONSHIP TO SUBJECT PROPERTY: manager YRS. IN POSITION: 16

1. HAVE ANY PREVIOUS STUDIES OR TESTING REPORTS BEEN COMPLETED FOR THE SUBJECT PROPERTY? ___ NO ___ YES (If yes, please provide copies for review.)

2. SIZE AND NATURE OF OPERATION:
TOTAL SQ. FTG. OF BLDG. 22,260, PROPERTY SIZE (FT./ACRES): 41,038 Sq FT
DESCRIP OF OPER: _____
CURRENT TENANTS: (1) T M motorparts.

3. WHAT ARE THE PAST USES/OCCUPANTS OF THIS FACILITY/PROPERTY AND DATES OF OCCUPANCY? LKQ Hunts Point Auto Parts, Corp - 11/99 — 8-14
East End Parking - 6-15-to 9-17 land only

WHAT IS THE INTENDED USE OF THE SUBJECT PROPERTY AND/OR STRUCTURES LOCATED ON THE SUBJECT PROPERTY? ware House light Industrial Training Center AND OFFICE

4. MISCELLANEOUS UTILITIES:
FLOOR DRAINS: _____ DISCHARGE POINT _____
SUMP PUMPS: _____ DISCHARGE POINT _____
STORM DRAINS: _____ DISCHARGE POINT _____
OTHER: _____
ON-SITE UTILITIES: Con Ed Gas Electric
WHEN WAS SUBJECT PROPERTY CONNECTED TO MUNICIPAL SEWER, IF CURRENTLY CONNECTED? _____

5. LIST AND DESCRIBE THE STORMWATER AND WASTEWATER DISCHARGES FROM THE FACILITY, INCLUDING THE SOURCES, DISCHARGE POINTS, AND RECEIVING WATERS OR FACILITY:
Provided By the City of New York

6. WHAT IS THE NATURE OF THE WASTES GENERATED ON-SITE (INCLUDING HAZ./REG. WASTES, THE DISPOSAL METHODS AND WASTE DISPOSAL VENDORS)?
HOW IS IT STORED ON-SITE? _____
WHO COLLECTS THE WASTES? _____ OF _____
7. HAS THE REFUSE SERVICE EVER REFUSED TO COLLECT THE WASTE? ___ NO ___ YES, EXPLAIN
DO YOU RECYCLE? ___ YES ___ NO

8. HAVE THERE BEEN ANY COMPLAINTS OR NOTICES OF VIOLATIONS ABOUT YOUR FACILITY?
✓ NO ___ YES, NATURE _____
ARE ANY COMPLAINTS PENDING? ___ NO ___ YES

9. WHAT TYPE OF HVAC (HEATING, VENTILATION & AIR CONDITIONING) SYSTEM DOES THIS FACILITY HAVE? (NAT. GAS, ELECTRIC, HEATING OIL, PROPANE, ETC./FORCED AIR, RADIANT, HVAC, ETC.) _____

10. WAS THIS FACILITY EVER HEATED WITH OIL? ✓ NO ___ YES
WHEN? _____
STORAGE CONTAINER OF OIL: _____
WAS THE FACILITY EVER HEATED WITH STEAM? ✓ NO ___ YES
WHEN? _____
WAS THE HEATING SYSTEM EVER CONVERTED? ✓ NO ___ YES
PREVIOUS SYSTEM? _____

11. WAS THIS SITE EVER A CAR REPAIR SHOP, PAINT SHOP, OR GAS STATION?
✓ NO ___ YES, WHEN? _____ OWNER? _____

12. ARE THERE ANY ABOVEGROUND OR UNDERGROUND STORAGE TANKS? ___ NO ___ YES
___ UST ___ AST, CAPACITY _____ PRODUCT _____
___ UST ___ AST, CAPACITY _____ PRODUCT _____
___ UST ___ AST, CAPACITY _____ PRODUCT _____
DO THE TANKS COMPLY WITH DECEMBER 1998 REQUIREMENTS? (including overfill protection, monitoring systems, cathodic protection/double walled tank and piping, etc.) _____
WHEN WERE THE TANKS LAST TESTED? _____
ARE THEY REGISTERED? _____
LEAK DETECTION DEVICES IN PLACE? _____ IF YES, TYPE OF SYSTEM? _____
MONITORING REPORTS AVAILABLE? _____ IF YES, PLEASE SUPPLY COPIES
SPCC PLAN IN PLACE (ASTs totaling over 1,320 gallons): _____

13. WERE THERE EVER TO YOUR KNOWLEDGE ANY UNDERGROUND OR ABOVEGROUND TANKS LOCATED ON-SITE PREVIOUSLY?
✓ NO ___ YES, WHEN? _____
ARE CLOSURE REPORTS AVAILABLE? _____ IF SO, PLEASE SUPPLY COPIES

14. WHAT TYPES OF CHEMICALS ARE USED IN THE OPERATIONS?
(ATTACH LIST) _____
_____
DO YOU HAVE MSDS'S FOR THESE CHEMICALS? ___ NO ___ YES
LIST HAZ. WASTE/MATERIAL STORAGE FACILITY _____
_____

HAVE YOU EVER TRANSPORTED HAZARDOUS WASTE FROM THIS SITE? ✓ NO ___ YES
ARE HAZ. WASTE MANIFESTS ON FILE? _____
HAS AN EMERGENCY PLAN BEEN PREPARED AND SUBMITTED TO THE LOCAL FIRE DEPARTMENT? _____

DO YOU STORE ANY HAZ./REG. WASTES ON-SITE FOR TRANSFER TO A DISPOSAL FACILITY?
✓ NO ___ YES, RECIPIENT OF WASTES _____ PERMIT # _____

15. LIST THE ENVIRONMENTAL OR SAFETY REPORTS TO BE SUBMITTED TO REGULATORY AGENCIES, THE FREQUENCY OF SUCH REPORTS, AND THE AGENCIES TO WHICH THEY ARE SUBMITTED. _____

16. DO YOU HAVE ANY FEDERAL, STATE OR LOCAL PERMITS FOR THE FOLLOWING? ("TO EMIT TO AIR OR WATER?") SPDES _____ RCRA(WASTES) _____ HAZ. USE EPA ID# _____ AIR EMISSIONS _____

17. ARE PCBS OR PCB-CONTAINING EQUIPMENT PRESENT ON THE SUBJECT PROPERTY, INCLUDING BALLASTS OR OTHER EQUIPMENT? __ YES ✓ NO
LOCATION: _____ TYPE OF EQUIP.? _____
LOCATION: _____ TYPE OF EQUIP.? _____

18. ARE THERE TRANSFORMERS LOCATED ON-SITE? __ YES ✓ NO
IF SO AND THEY ARE UTILITY OWNED, WHAT IS THE NAME OF THE UTILITY COMPANY?
_____

19. DO YOU TREAT OR DISPOSE OF ANY WASTE MATERIALS ON-SITE INCLUDING INCINERATION, NEUTRALIZATION, OR LANDFILLING?
✓ NO __ YES, TYPE _____

20. HAS THIS FACILITY EVER BEEN TESTED FOR THE FOLLOWING?
DRINKING WATER _____ INDOOR AIR _____ ASBESTOS ____ RADON ____
LEAD PAINT _____ EMISSIONS _____ WASTES ____
IF YES, PLEASE PROVIDE COPIES OF THE REPORTS OR SURVEYS.

21. HAVE YOU EVER BEEN THE SUBJECT OF AN ENFORCEMENT ACTION BY ANY FEDERAL, STATE, OR LOCAL AGENCY REGARDING ENVIRONMENTAL ISSUES?
✓ NO __ YES, NATURE _____

22. HAVE THERE BEEN ANY SPILLS, UNPERMITTED DISCHARGES, OR RELEASES OF HAZARDOUS OR CONTAMINATED MATERIALS AT OR NEAR THIS FACILITY?
✓ NO ___ YES, NATURE _____

23. ARE THERE ANY STAINED, STRESSED OR DEAD VEGETATION/SURFACES ON-SITE?
✓ NO ___ YES, SUSPECTED CAUSE _____

24. ARE YOU PRESENTLY UNDER ANY FEDERAL, STATE, OR LOCAL CONSENT ORDERS, DECREES OR CAUSES OF ACTION? ✓ NO ___ YES, ARE ANY PENDING? ___ NO ___ YES

25. HAVE YOU EVER ALLOWED OR PERMITTED ANY OTHER ENTITY TO DUMP, STORE, DISPOSE, TRANSPORT, BURY, INCINERATE, OR LANDFILL ANY MATERIALS AT THIS SITE?
✓ NO ___ YES, WHO?_____ WHEN? _____

26. DOES ANYONE OTHER THAN YOUR OPERATIONS UTILIZE THIS SITE PRESENTLY?
___ NO ___ YES, WHO? _____
NATURE OF THEIR OPERATIONS: _____

27. HAVE YOU EVER EXPERIENCED ANY PROBLEMS FROM ODORS, DRAINAGE, STORAGE PRACTICES, OR OPERATIONS FROM YOUR NEIGHBORS?
___ NO ___ YES, NATURE _____
WHAT WERE THE ACTIONS TAKEN TO CORRECT THESE PROBLEMS?
_____

28. ARE YOU AWARE OF ANY ENVIRONMENTAL LIENS ON THE PROPERTY?
___ NO ___ YES, NATURE _____

29. WAS THERE EVER A SEPTIC TANK, LEACH FIELD, INJECTION WELL, OR DRY WELL LOCATED ON THE PROPERTY?
___ NO ___ YES, WHEN _____
IF A SEPTIC IS CURRENTLY LOCATED ON-SITE, WHEN DID IT PASS THE LAST PERCOLATION TEST? _____
ARE THERE, OR WERE THERE EVER, ANY WATER WELLS LOCATED ON-SITE?
___ NO ___ YES, WHEN _____

30. ARE THERE ANY LEAD PIPES/SOLDERING WITHIN THE SUBJECT STRUCTURE(S)?
___ NO ___ YES, LOCATION? _____

31. ARE YOU AWARE OF ANY MOLD HAZARDS WITHIN THE SUBJECT STRUCTURE(S)?
NO ___ YES, IF YES, WHERE? _____
WHAT ACTION HAS BEEN TAKEN? _____

- Is, or has there been, any visual mold growth or moldy odors identified within the subject building?
  No ___ Yes ___ Explain: _____
- Is, or has there been, any, moisture, condensation or high humidity problems within the subject building?
  No ___ Yes ___ Explain: _____
- Have any areas of the subject building been impacted by a flood, plumbing/sewer leak, roof/window leak, groundwater intrusion or discharge of a sprinkler system? If "yes," what repairs and/or corrective measures were undertaken to address such issues.
  No ___ Yes ___ Explain: _____
- Is a sump pump located within the basement of the subject building? If "yes," has the basement been characterized by dampness or periodic wetness?
  No ___ Yes ___ Explain: _____
- Have any occupants of the subject building complained as to water intrusion or moldy odors within their tenant spaces or reported any adverse health problems that have been alleged to be related to the subject building?
  No ___ Yes ___ Explain: _____
- Does the HVAC system have any drip pans or other open discharge of condensate water, steam or other moisture? If "yes," does the HVAC system have a written maintenance program?
  No ___ Yes ___ Explain: _____
- Has a state or local health agency issued any notices of violation to the subject building as to indoor air quality, odors, moisture or mold growth? **If "yes," please supply copies.**
  No ___ Yes ___ Explain: _____
- Have any moisture surveys, indoor air quality reports or surveys been conducted for the subject building? **If "yes," please supply copies.**
  No ___ Yes ___ Explain: _____
- Has an insurance claim ever been filed for water or mold-related damage to the subject building?
  No ___ Yes ___ Explain: _____

32. ARE THERE ANY DRY CLEANING OPERATIONS CONDUCTED ON-SITE? ✓ NO ___ YES
IF SO, WHAT IS THE CURRENT MACHINE GENERATION USED ON-SITE? _____
HOW OLD IS THE CURRENT MACHINE? _____
WAS THERE A PREVIOUS MACHINE UTILIZED ON-SITE? ___ NO ___ YES
HOW LONG HAS DRY CLEANING BEEN CONDUCTED ON-SITE? _____

33. IS THERE CURRENTLY ANY X-RAY DEVELOPING OR FILM DEVELOPING CONDUCTED ON-SITE?
✓ NO ___ YES, IF YES, IS THERE A SILVER RECOVERY SYSTEM IN USE? ___ NO ___ YES

34. ARE THERE CURRENTLY ANY UNOCCUPIED SPACES WITHIN THE BUILDING(S)? NO
(PLEASE LIST BY IDENTIFYING UNIT NUMBER, FLOOR, BUILDING, ETC.)
_____
_____

35. DO YOU HAVE SPECIALIZED KNOWLEDGE THAT WOULD PROVIDE INFORMATION REGARDING PREVIOUS OWNERSHIP OR USES OF THE PROPERTY THAT MAY BE MATERIAL TO IDENTIFYING RECOGNIZED ENVIRONMENTAL CONDITIONS ABOUT THE SITE?
✓ NO ___ YES, NATURE _____
_____

36. WHAT ARE THE PAST AND PRESENT USES OF THE PROPERTIES ADJACENT TO YOU? PLEASE INCLUDE DATES OF OCCUPANCY.

DIRECTION	CURRENT USE/OCCUPANT	PAST USES/OCCUPANTS
NORTH:	Park	
SOUTH:	Industrial	
EAST:	Water	
WEST:	Residential	

37. ARE THERE ANY PENDING, THREATENED OR PAST LITIGATION RELEVANT TO HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS IN, ON OR FROM THE SUBJECT PROPERTY? NO
_____

38. ARE THERE ANY PENDING, THREATENED OR PAST ADMINISTRATIVE PROCEEDINGS RELEVANT TO HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS IN, ON OR FROM THE SUBJECT PROPERTY? NO
_____

39. ARE THERE ANY NOTICES FROM ANY GOVERNMENTAL ENTITY REGARDING ANY POSSIBLE VIOLATION OF ENVIRONMENTAL LAWS OR POSSIBLE LIABILITY RELATING TO HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS? NO
_____

CERTIFICATION OF RESPONSES:

I, Robert Rosario, the owner/operator and/or responsible person for this facility, do hereby attest and certify that to the **best of my knowledge**, the answers and information provided in this questionnaire, are true and accurate. I have not willfully withheld information that may be pertinent to the questions contained herein and have not distorted or misrepresented the facts regarding the content of this questionnaire.

Signature: R. Rosario Date: 10-13-17

10.6 REGULATORY INFORMATION

1460 Sheridan Expressway
1460 Sheridan Expressway
Bronx, NY 10459

Inquiry Number: 5071514.2s
October 09, 2017

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459

COORDINATES

Latitude (North):	40.8316280 - 40° 49' 53.86''
Longitude (West):	73.8841680 - 73° 53' 3.00''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	594085.0
UTM Y (Meters):	4520454.0
Elevation:	8 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5940599 CENTRAL PARK, NY
Version Date:	2013
East Map:	5940605 FLUSHING, NY
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150522
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LKQ HUNTS POINT AUTO	1460 SHERIDAN EXPRES	NY AST		TP
A2	HUNTS POINT AUTO WRE	1480 SHERIDAN EXPWY	RCRA-CESQG, NY LTANKS, NY MANIFEST	Higher	67, 0.013, WSW
B3	J & A SERVICE - CLOS	1471 W FARMS RD	RCRA-CESQG, NY Spills, NY MANIFEST	Higher	249, 0.047, West
B4	J & L AUTO SEV	1471 W FARMS RD	NY UST	Higher	249, 0.047, West
B5	ABANDONED SERVICE ST	1471 WEST FARM RD	NY Spills	Higher	281, 0.053, West
B6	NYC DEP	1508 BOONE AVE	RCRA NonGen / NLR, NY MANIFEST	Higher	301, 0.057, NW
C7	UNDERGROUND TRANSFOR	1565 WEST FARMS RD	NY Spills	Higher	329, 0.062, North
D8	I/A/O BOONEY AVE & 1	BOONEY AVE & 172ND S	NY Spills	Higher	369, 0.070, NW
C9	LOT 9,TAXBLOCK 3014	1544 BOONE AVENUE	NY RES DECL, NY Spills	Higher	376, 0.071, NNW
E10	BRONX RIVER	EAST 172ND ST/WESTCH	NY Spills	Higher	390, 0.074, South
D11	CON EDISON	1521 BOONE AVE	NY MANIFEST	Higher	414, 0.078, NW
F12	PRIVATE RESIDENCE	1277 BRONX RIVER AVE	NY Spills	Higher	485, 0.092, ESE
F13	CONSOLIDATED EDISON	1267 BRONX RIVER AVE	NY MANIFEST	Higher	512, 0.097, SE
E14	LKQ HUNTS POINT AUTO	1480 SHERIDAN EXPRES	NY SWF/LF, NY CBS, NY SPDES	Higher	535, 0.101, SSW
G15	NYCSCA - PUBLIC SCHO	1001 JENNINGS ST	RCRA-SQG, NY MANIFEST	Higher	539, 0.102, West
G16	PUBLIC SCHOOL 66 - B	1001 JENNINGS STREET	NY AST	Higher	539, 0.102, West
D17	CON EDISON	1524 LONGFELLOW AVE	NY MANIFEST	Higher	550, 0.104, NW
D18	CON EDISON	1524 LONGFELLOW AVE	NJ MANIFEST	Higher	550, 0.104, NW
D19	CON EDISON	1524 LONGFELLOW AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	550, 0.104, NW
H20	STRIP MALL	1299-1309 BRONX RIVE	NY Spills	Higher	562, 0.106, East
D21	MRC 754 E 161ST ST H	1504 LONGFELLOW AVE.	NY AST	Higher	565, 0.107, WNW
G22	MRC/754 E 161ST HDFC	1500 LONGFELLOW AVE.	NY AST	Higher	568, 0.108, WNW
D23	CON EDISON	1526 LONGFELLOW AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	575, 0.109, NW
D24	CON EDISON	1526 LONGFELLOW AVE	NY MANIFEST	Higher	575, 0.109, NW
D25	CON EDISON	1526 LONGFELLOW AVE	NJ MANIFEST	Higher	575, 0.109, NW
I26	NYC DEPT OF SANITATI	1661 W FARMS RD BX-W	RCRA NonGen / NLR, FINDS, ECHO	Higher	596, 0.113, North
I27	BRONX EAST 03A DOS -	1661 WEST FARMS ROAD	NY Spills	Higher	596, 0.113, North
I28	DSNY BX DISTRICT 3A	1661 WEST FARMS ROAD	NY AST	Higher	596, 0.113, North
I29	DSNY BX DISTRICT 3A	1661 WEST FARMS ROAD	NY UST	Higher	596, 0.113, North
I30	LOT 15,TAXBLOCK 3014	1560 BOONE AVENUE	NY LTANKS, NY RES DECL	Higher	601, 0.114, North
I31	FERRIS STAHL MEYER P	1560 BOONE AVENUE	NY AST	Higher	601, 0.114, North
J32	1563 BOONE AVE	1563 BOONE AVENUE	NY AST	Higher	609, 0.115, NNW
J33	CON EDISION	1559 BOONE AV	NY MANIFEST	Higher	610, 0.116, NNW
K34	1405 COLGATE AVENUE	1405 COLGATE AVENUE	NY AST	Higher	637, 0.121, SE
H35	DRUM RUN - PARKING L	1321 BRONX RIVER AVE	NY Spills	Higher	653, 0.124, East
K36	CON EDISON	1243 BRONX RIVER AVE	RCRA NonGen / NLR, NY MANIFEST	Higher	672, 0.127, SSE
37	CON EDISON - EAST 17	WEST FARMS RD. AND B	EDR MGP	Higher	693, 0.131, NE
L38	CON EDISON	1499 LONGFELLOW	NJ MANIFEST	Higher	703, 0.133, WNW
L39	CON EDISON	1499 LONGFELLOW AVE	NJ MANIFEST	Higher	703, 0.133, WNW

MAPPED SITES SUMMARY

Target Property Address:
1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
L40	CON EDISON	1499 LONGFELLOW	NY MANIFEST	Higher	703, 0.133, WNW
L41	CON EDISON	1499 LONGFELLOW AVE	NY MANIFEST	Higher	703, 0.133, WNW
K42	THOMAS RES	1252 BRONX RIVER AVE	NY Spills	Higher	705, 0.134, SE
K43	215315; 1243 BRONX R	1243 BRONX RIVER AVE	NY Spills	Higher	718, 0.136, SSE
I44	MANHOLE 27283	W FARM RD/E 173 RD S	NY Spills	Higher	720, 0.136, NNE
F45	ON SIDEWALK	1259 EVERGREEN AVE	NY Spills	Higher	723, 0.137, SE
I46	0940 (TRANFORMER MAN	E 173 ST & W FARMS R	NY Spills	Higher	725, 0.137, NNE
I47	CON EDISON	W FARMS RD & E 173RD	NY MANIFEST	Higher	725, 0.137, NNE
I48	CON EDISON	E 173RD ST & WEST FA	NY MANIFEST	Higher	725, 0.137, NNE
K49	APEX SALES, TOWING &	1235 BRONX RIVER AVE	NY CBS, NY Spills, NY SPDES	Higher	748, 0.142, SSE
K50	1255 EVERGREEN AVENU	1255 EVERGREEN AVENU	NY Spills	Higher	755, 0.143, SE
M51	NYCHA - WEST FARMS R	1323 W FARMS RD	RCRA-CESQG, NJ MANIFEST, NY MANIFEST	Higher	780, 0.148, SW
J52	ALEX AUTO REPAIR SHO	1006 E 173RD ST	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Higher	790, 0.150, North
N53	NYC BD OF ED - PUBLI	1434 LONGFELLOW AVE	RCRA-SQG, NY Spills, FINDS, ECHO, NY MANIFEST	Higher	801, 0.152, WSW
O54	CON EDISON	173RD ST & BOONE AVE	NY MANIFEST	Higher	803, 0.152, North
O55	CON EDISON	173RD ST & BOONE AVE	NJ MANIFEST	Higher	803, 0.152, North
L56	1498 BRYANT AVE	1498 BRYANT AVE	NY Spills	Higher	822, 0.156, WNW
P57	CON EDISON	1252 EVERGREEN AVE	NY MANIFEST	Higher	852, 0.161, ESE
N58	PRIVATE HOME	1447 LONGFELLOW AVE	NY Spills	Higher	873, 0.165, WSW
O59	ADHESIVE PRODUCTS CO	1660-1684 BOONE AVE	NY Spills, RCRA NonGen / NLR, NY MANIFEST	Higher	879, 0.166, North
O60	CON EDISION	1674 BOONE AV	NY MANIFEST	Higher	879, 0.166, North
M61	CON EDISON	1314 WEST FARMS ROAD	NY MANIFEST	Higher	880, 0.167, SW
Q62	CON EDISON	1456 BRYANT AVE	NY MANIFEST	Higher	885, 0.168, West
K63	SERVICE BOX 2252	1230 COLGATE AV	NY Spills	Higher	887, 0.168, SE
O64	CON EDISON	1661 BOONE AVENUE F/	NY MANIFEST	Higher	893, 0.169, North
R65	CON EDISON	E 172 ST & WHEELER A	NY MANIFEST	Higher	906, 0.172, ESE
R66	NYNEX	172ND ST & WHEELER A	NY MANIFEST	Higher	906, 0.172, ESE
O67	ADHESIVE PRODUCTS	1660-1668 BOONE AVEN	NY UST, NY CBS UST, NY CBS	Higher	906, 0.172, North
L68	1534 BRYANT AVE/BRON	1534 BRYANT AVENUE	NY Spills	Higher	907, 0.172, NW
R69	GARCIA RESIDENCE	1316 WHEELER AVENUE	NY LTANKS	Higher	914, 0.173, East
S70	CON EDISON	1715 WEST FARM RD	NY MANIFEST	Higher	935, 0.177, NNE
T71	CON EDISON	1548 BRYANT AV	NY MANIFEST	Higher	955, 0.181, NNW
U72	CON EDISON	1491 BRYANT AVE	NJ MANIFEST	Higher	957, 0.181, WNW
U73	CON EDISON	1491 BRYANT AVE	NY MANIFEST	Higher	957, 0.181, WNW
U74	CON EDISON	1481 BRYANT AVE	NJ MANIFEST	Higher	961, 0.182, WNW
U75	CON ED	1481 BRYANT AVE	NY MANIFEST	Higher	961, 0.182, WNW
N76	MANHOLE 17607	1431 LONGFELLOW AVE	NY Spills, NY MANIFEST	Higher	975, 0.185, WSW
Q77	CON EDISON	1465 BRYANT AVE	NY MANIFEST	Higher	977, 0.185, West
V78	CON EDISON	1350 BRONX RIVER AV	NY MANIFEST	Higher	984, 0.186, ENE

MAPPED SITES SUMMARY

Target Property Address:
1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
V79	CON EDISON	1350 BRONX RIVER AV	NY MANIFEST	Higher	984, 0.186, ENE
P80	CON EDISON	1236 EVERGREEN AV	NY MANIFEST	Higher	984, 0.186, SE
P81	CON EDISON	1236 EVERGREEN AV	NY MANIFEST	Higher	984, 0.186, SE
O82	J KAUFMAN IRON WORKS	1685 BOONE AVE	RCRA NonGen / NLR, FINDS, ECHO, NY E DESIGNATION,...	Higher	994, 0.188, North
T83	CON EDISON	1558 BRYANT AV	NY MANIFEST	Higher	996, 0.189, NNW
W84	CON EDISON	1327 ELDER AVE	NY MANIFEST	Higher	999, 0.189, East
W85	CON EDISON	1323 ELDER AV	NY MANIFEST	Higher	1003, 0.190, East
X86	LETTERA SIGN & ELECT	1209 BRONX RIVER AVE	RCRA-SQG, NY MANIFEST	Higher	1004, 0.190, SSE
Q87	CON EDISON	1455 BRYANT AVE	NY MANIFEST	Higher	1022, 0.194, West
X88	NYC HUMAN RESOURCES	1209 COLGATE AVENUE	NY Spills	Higher	1024, 0.194, SSE
S89	SPILL NUMBER 0107623	1700 BOONE AVE/174TH	NY Spills	Higher	1029, 0.195, North
R90	SPILL NUMBER 9912609	1508 EAST 172ND ST	NY Spills	Higher	1049, 0.199, ESE
Y91	CON EDISON	1432 BRYANT AVE	NY MANIFEST	Higher	1052, 0.199, WSW
R92	SPILL NUMBER 0011458	1256 WHEELER AVE	NY LTANKS	Higher	1052, 0.199, ESE
O93	CON EDISON	1670 LONG FELLOW AV	NY MANIFEST	Higher	1055, 0.200, North
T94	APT BLDG	1555 BRYANT AVE	NY Spills	Higher	1065, 0.202, NNW
Z95	MANHOLE 495	WEST FARM RD/ FREEDM	NY Spills	Higher	1079, 0.204, SW
X96	BRONX RIVER	WESTCHESTER AVE	NY Spills	Lower	1080, 0.205, South
X97	ALLIANCE ENERGY LLC	1441 WESTCHESTER AVE	NY Spills	Higher	1101, 0.209, SSE
X98	BELOW DISPENSORS	1441 WESTCHESTER AVE	NY Spills	Higher	1101, 0.209, SSE
X99	GETTY #329	1441 WESTCHESTER AVE	NY LTANKS, NY Spills	Higher	1101, 0.209, SSE
X100	GETTY GAS STATION	1441 WESTCHESTER AVE	NY Spills	Higher	1101, 0.209, SSE
X101	BRONX RIVER AV/WESTC	BX RIVER AV/WESTCHES	NY Spills	Higher	1117, 0.212, SSE
X102	CON EDISON MANHOLE 2	BRONX RIVER AVE & CL	RCRA NonGen / NLR, NY MANIFEST	Higher	1117, 0.212, SSE
X103	NYNEX	BRONX RIV RD & WESTC	NY MANIFEST	Higher	1117, 0.212, SSE
X104	WESTCHESTER @ CLOSE	WESTCHESTER AV @ CLO	NY Spills	Higher	1117, 0.212, SSE
AA105	DRUM RUN	1695 BOONE AVE	NY Spills, NY E DESIGNATION	Higher	1129, 0.214, North
Z106	INTERSECTION	FREEMAN AVE/LONGFELL	NY Spills	Higher	1141, 0.216, SW
107	CONED	VYSE AVE AND 172ND	NY Spills	Higher	1147, 0.217, WNW
R108	CON EDISON	W 172ND ST & ELDER A	NY MANIFEST	Higher	1147, 0.217, East
R109	CON EDISON	W 172ND ST & ELDER A	NJ MANIFEST	Higher	1147, 0.217, East
Z110	AMBUTRANS HOLDING CO	1028 FREEMAN STREET	NY UST, NY Spills	Higher	1150, 0.218, SW
AB111	NYC DEPT OF EDUCATIO	1550 VYSE AVE	RCRA-SQG, NY Spills, NY MANIFEST	Higher	1153, 0.218, NW
AB112	OUTSIDE	1550 VYSE AVE	NY Spills	Higher	1153, 0.218, NW
Z113	CON EDISON	1000 FREEMAN ST	NY MANIFEST	Higher	1186, 0.225, SW
Z114	CON EDISON	1000 FREEMAN ST	NJ MANIFEST	Higher	1186, 0.225, SW
AC115	CON EDISON	1214 EVERGREEN AVE	NY MANIFEST	Higher	1192, 0.226, SE
AA116	GETTY PETROLEUM CORP	1720 BOONE AVE & E 1	RCRA NonGen / NLR, ICIS, FINDS, ECHO, NY MANIFEST	Higher	1196, 0.227, North
AA117	LOT 17,TAXBLOCK 3015	1704 BOONE AVENUE	NY Spills, NY E DESIGNATION	Higher	1212, 0.230, North

MAPPED SITES SUMMARY

Target Property Address:
1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
118	DRUM RUN	JENNINGS ST AND VYSE	NY Spills	Higher	1213, 0.230, West
AC119	COMMERCIAL BUILDING	1471 WESTCHESTER AVE	NY Spills	Higher	1226, 0.232, SE
Y120	SPILL NUMBER 0330022	1406-8 BRYANT AVE	NY Spills	Higher	1230, 0.233, WSW
AD121	CONSOLIDATED EDISON	1249 ELDER AVE SB193	NY MANIFEST	Higher	1236, 0.234, ESE
AA122	1712 LONGFELLOW AVE	1712 LONGFELLOW AVE	NY Spills	Higher	1240, 0.235, North
AE123	GETTY S/S #268 - GET	1185 BRONX RIVER AVE	NY LTANKS, NY Spills	Higher	1248, 0.236, South
AE124	GETTY PETROLEUM CORP	1185 BRONX RIVER AVE	RCRA NonGen / NLR, US AIRS, FINDS, ECHO, NY...	Higher	1248, 0.236, South
AE125	GETTY # 268	1185 BRONXRIVER AVE	NY Spills	Higher	1248, 0.236, South
AF126	BRONX RIVER	WESTCHESTER AVE/EDGE	NY Spills	Higher	1252, 0.237, SSW
AF127	VAULT 1744	EDGEWATER RD AND WES	NY Spills	Higher	1253, 0.237, SSW
AG128	PRIVATE RESIDENCE	1529 EAST 172ND ST	NY Spills	Higher	1256, 0.238, East
AG129	PRIVATE HOME	1529 E 172ND ST	NY Spills	Higher	1256, 0.238, East
130	TANK LEAK IN REAR YA	1347 BOYNTON AVE	NY LTANKS	Higher	1257, 0.238, ENE
AF131	WESTCHESTER OFF RAMP	SHERIDAN EXPRESSWAY	NY Spills	Higher	1263, 0.239, SSW
AF132	SHERATON EXPRESSWAY	SERVICE RD&WESTCHEST	NY Spills	Higher	1263, 0.239, SSW
133	AUTO REPAIR SHOP	1452 WESTCHESTER AVE	NY Spills	Higher	1273, 0.241, SSE
134	FBHC	1 WEST FARMS ROAD	NY UST, NY Spills	Higher	1275, 0.241, SSW
AB135	CON EDISON	1565 VYSE AV	NY MANIFEST	Higher	1288, 0.244, NW
AB136	CON EDISON	1571 VYSE AVE	NY MANIFEST	Higher	1294, 0.245, NW
AD137	ROADWAY	1252 ELDER AVE	NY Spills	Higher	1311, 0.248, ESE
138	SERVICE BOX # 22971	1745 WEST FARMS RD	NY Spills	Higher	1317, 0.249, NNE
AC139	VAULT 1910	EVERGREEN AVE/WESTCH	NY Spills	Higher	1319, 0.250, SE
140	SPECIALTY MOTOR CARS	1125 BRONX RIVER AVE	NY SWF/LF	Higher	1976, 0.374, South
141	1800 SOUTHERN BOULEV	1776-1778 AND 1800-1	NY BROWNFIELDS	Higher	2353, 0.446, NNW
142	1899-1905 WEST FARMS	1899-1905 WEST FARMS	NY INST CONTROL, NY BROWNFIELDS	Higher	2536, 0.480, NNE
143	LUCKY CLEANERS	1120 WESTCHESTER AVE	NY SHWS, RCRA NonGen / NLR, ICIS, FINDS, ECHO, NY...	Higher	2737, 0.518, SW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LKQ HUNTS POINT AUTO 1460 SHERIDAN EXPRES BRONX, NY 10459	NY AST Database: AST, Date of Government Version: 09/21/2017 Facility Id: 2-611085	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators

EXECUTIVE SUMMARY

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

NY VAPOR REOPENED ---------- Vapor Intrusion Legacy Site List

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
NY HIST LTANKS ---------- Listing of Leaking Storage Tanks

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
NY MOSF UST ---------- Major Oil Storage Facilities Database
NY MOSF ---------- Major Oil Storage Facility Site Listing
NY CBS AST ---------- Chemical Bulk Storage Database
NY MOSF AST ---------- Major Oil Storage Facilities Database
INDIAN UST ---------- Underground Storage Tanks on Indian Land
NY TANKS ---------- Storage Tank Faciliy Listing

State and tribal institutional control / engineering control registries

NY ENG CONTROLS ---------- Registry of Engineering Controls

State and tribal voluntary cleanup sites

NY VCP ---------- Voluntary Cleanup Agreements
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

NY ERP ---------- Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

NY SWTIRE ---------- Registered Waste Tire Storage & Facility List
NY SWRCY ---------- Registered Recycling Facility List
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands

ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
NY DEL SHWS ---------- Delisted Registry Sites
US CDL ---------- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

NY HIST UST ---------- Historical Petroleum Bulk Storage Database
NY HIST AST ---------- Historical Petroleum Bulk Storage Database

Local Land Records

NY LIENS ---------- Spill Liens Information
LIENS 2 ---------- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
NY Hist Spills ---------- SPILLS Database

Other Ascertainable Records

FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST
2020 COR ACTION ---------- 2020 Corrective Action Program List
TSCA ---------- Toxic Substances Control Act
TRIS ---------- Toxic Chemical Release Inventory System
SSTS ---------- Section 7 Tracking Systems
ROD ---------- Records Of Decision
RMP ---------- Risk Management Plans
RAATS ---------- RCRA Administrative Action Tracking System
PRP ---------- Potentially Responsible Parties
PADS ---------- PCB Activity Database System
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---------- Material Licensing Tracking System
COAL ASH DOE ---------- Steam-Electric Plant Operation Data
COAL ASH EPA ---------- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---------- PCB Transformer Registration Database
RADINFO ---------- Radiation Information Database
HIST FTTS ---------- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---------- Incident and Accident Data
CONSENT ---------- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---------- Indian Reservations
FUSRAP ---------- Formerly Utilized Sites Remedial Action Program
UMTRA ---------- Uranium Mill Tailings Sites
LEAD SMELTERS ---------- Lead Smelter Sites

EXECUTIVE SUMMARY

US MINES ---------- Mines Master Index File
ABANDONED MINES ---------- Abandoned Mines
UXO ---------- Unexploded Ordnance Sites
DOCKET HWC ---------- Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ---------- EPA Fuels Program Registered Listing
NY AIRS ---------- Air Emissions Data
NY COAL ASH ---------- Coal Ash Disposal Site Listing
NY DRYCLEANERS ---------- Registered Drycleaners
NY Financial Assurance ---------- Financial Assurance Information Listing
NY HSWDS ---------- Hazardous Substance Waste Disposal Site Inventory
NY UIC ---------- Underground Injection Control Wells

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 09/13/2017 has revealed that there is 1 RCRA-SQG site within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYCSCA - PUBLIC SCHO	***1001 JENNINGS ST***	***W 0 - 1/8 (0.102 mi.)***	***G15***	***42***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 09/13/2017 has revealed that there are 2 RCRA-CESQG sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUNTS POINT AUTO WRE	***1480 SHERIDAN EXPWY***	***WSW 0 - 1/8 (0.013 mi.)***	***A2***	***12***
J & A SERVICE - CLOS	***1471 W FARMS RD***	***W 0 - 1/8 (0.047 mi.)***	***B3***	***16***

State- and tribal - equivalent CERCLIS

NY SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the NY SHWS list, as provided by EDR, and dated 05/16/2017 has revealed that there is 1 NY SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LUCKY CLEANERS	***1120 WESTCHESTER AVE***	***SW 1/2 - 1 (0.518 mi.)***	***143***	***377***
Site Code: 513986				
Class Code: Significant threat to the public health or environment - action required.				

State and tribal landfill and/or solid waste disposal site lists

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 06/30/2017 has revealed that there are 2 NY SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LKQ HUNTS POINT AUTO	***1480 SHERIDAN EXPRES***	***SSW 0 - 1/8 (0.101 mi.)***	***E14***	***40***
SPECIALTY MOTOR CARS	1125 BRONX RIVER AVE	S 1/4 - 1/2 (0.374 mi.)	140	349

State and tribal leaking storage tank lists

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 05/16/2017 has revealed that there are 7 NY LTANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUNTS POINT AUTO WRE	***1480 SHERIDAN EXPWY***	***WSW 0 - 1/8 (0.013 mi.)***	***A2***	***12***
Spill Number/Closed Date: 9702732 / 2005-11-28				
Site ID: 83758				

Program Number: 9702732

LOT 15,TAXBLOCK 3014	***1560 BOONE AVENUE***	***N 0 - 1/8 (0.114 mi.)***	***I30***	***103***
Spill Number/Closed Date: 0307241 / 2005-07-19 Site ID: 290018 Program Number: 0307241				
GARCIA RESIDENCE	1316 WHEELER AVENUE	E 1/8 - 1/4 (0.173 mi.)	R69	206
Spill Number/Closed Date: 0413444 / 2005-05-27 Site ID: 342581 Program Number: 0413444				
SPILL NUMBER 0011458	1256 WHEELER AVE	ESE 1/8 - 1/4 (0.199 mi.)	R92	249
Spill Number/Closed Date: 0011458 / 2004-05-03 Site ID: 157591 Program Number: 0011458				
GETTY #329	***1441 WESTCHESTER AVE***	***SSE 1/8 - 1/4 (0.209 mi.)***	***X99***	***258***
Spill Number/Closed Date: 9504305 / 2006-01-05 Site ID: 74807 Program Number: 9504305				
GETTY S/S #268 - GET	***1185 BRONX RIVER AVE***	***S 1/8 - 1/4 (0.236 mi.)***	***AE123***	***309***
Spill Number/Closed Date: 9209035 / 2007-05-04 Spill Number/Closed Date: 0512577 / 2006-05-11 Site ID: 211852 Site ID: 358914 Program Number: 9209035 Program Number: 0512577				
TANK LEAK IN REAR YA	1347 BOYNTON AVE	ENE 1/8 - 1/4 (0.238 mi.)	130	334
Spill Number/Closed Date: 0400237 / 2006-01-12 Site ID: 238140 Program Number: 0400237				

State and tribal registered storage tank lists

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, has revealed that there are 2 NY UST sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
J & L AUTO SEV	1471 W FARMS RD	W 0 - 1/8 (0.047 mi.)	B4	21
Database: UST, Date of Government Version: 09/21/2017				
DSNY BX DISTRICT 3A	1661 WEST FARMS ROAD	N 0 - 1/8 (0.113 mi.)	I29	96
Database: UST, Date of Government Version: 09/21/2017				

EXECUTIVE SUMMARY

NY CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the NY CBS list, as provided by EDR, and dated 09/21/2017 has revealed that there are 3 NY CBS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LKQ HUNTS POINT AUTO	***1480 SHERIDAN EXPRES***	***SSW 0 - 1/8 (0.101 mi.)***	***E14***	***40***
Facility Status: Unregulated/Closed				
CBS Number: 2-000383				
APEX SALES, TOWING &	***1235 BRONX RIVER AVE***	***SSE 1/8 - 1/4 (0.142 mi.)***	***K49***	***130***
Facility Status: Unregulated/Closed				
CBS Number: 2-000425				
ADHESIVE PRODUCTS	***1660-1668 BOONE AVEN***	***N 1/8 - 1/4 (0.172 mi.)***	***O67***	***187***
Facility Status: Unregulated/Closed				
CBS Number: 2-000246				

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, has revealed that there are 7 NY AST sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PUBLIC SCHOOL 66 - B	1001 JENNINGS STREET	W 0 - 1/8 (0.102 mi.)	G16	46
Database: AST, Date of Government Version: 09/21/2017				
Facility Id: 2-604868				
MRC 754 E 161ST ST H	1504 LONGFELLOW AVE.	WNW 0 - 1/8 (0.107 mi.)	D21	53
Database: AST, Date of Government Version: 09/21/2017				
Facility Id: 2-605595				
MRC/754 E 161ST HDFC	1500 LONGFELLOW AVE.	WNW 0 - 1/8 (0.108 mi.)	G22	55
Database: AST, Date of Government Version: 09/21/2017				
Facility Id: 2-605593				
Facility Id: 2-605594				
DSNY BX DISTRICT 3A	1661 WEST FARMS ROAD	N 0 - 1/8 (0.113 mi.)	I28	89
Database: AST, Date of Government Version: 09/21/2017				
Facility Id: 2-455598				
FERRIS STAHL MEYER P	1560 BOONE AVENUE	N 0 - 1/8 (0.114 mi.)	I31	105
Database: AST, Date of Government Version: 09/21/2017				
Facility Id: 2-605285				
1563 BOONE AVE	1563 BOONE AVENUE	NNW 0 - 1/8 (0.115 mi.)	J32	107
Database: AST, Date of Government Version: 09/21/2017				
Facility Id: 2-609862				
1405 COLGATE AVENUE	1405 COLGATE AVENUE	SE 0 - 1/8 (0.121 mi.)	K34	110
Database: AST, Date of Government Version: 09/21/2017				
Facility Id: 2-467359				

EXECUTIVE SUMMARY

State and tribal institutional control / engineering control registries

NY RES DECL: A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

A review of the NY RES DECL list, as provided by EDR, has revealed that there are 2 NY RES DECL sites within approximately 0.18 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 9,TAXBLOCK 3014	***1544 BOONE AVENUE***	***NNW 0 - 1/8 (0.071 mi.)***	***C9***	***32***
Database: ENV RES DECL, Date of Government Version: 06/27/2017				
LOT 15,TAXBLOCK 3014	***1560 BOONE AVENUE***	***N 0 - 1/8 (0.114 mi.)***	***I30***	***103***
Database: ENV RES DECL, Date of Government Version: 06/27/2017				

Environmental Remediation sites that have institutional controls in place.

A review of the NY INST CONTROL list, as provided by EDR, and dated 05/16/2017 has revealed that there is 1 NY INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
1899-1905 WEST FARMS	***1899-1905 WEST FARMS***	***NNE 1/4 - 1/2 (0.480 mi.)***	***142***	***354***
Site Code: 488955				

State and tribal Brownfields sites

NY BROWNFIELDS: Brownfields Site List

A review of the NY BROWNFIELDS list, as provided by EDR, and dated 05/16/2017 has revealed that there are 2 NY BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
1800 SOUTHERN BOULEV	1776-1778 AND 1800-1	NNW 1/4 - 1/2 (0.446 mi.)	141	350
Site Code: 402262				
1899-1905 WEST FARMS	***1899-1905 WEST FARMS***	***NNE 1/4 - 1/2 (0.480 mi.)***	***142***	***354***
Site Code: 488955				

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following:

EXECUTIVE SUMMARY

Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 05/16/2017 has revealed that there are 60 NY Spills sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
J & A SERVICE - CLOS	***1471 W FARMS RD***	***W 0 - 1/8 (0.047 mi.)***	***B3***	***16***
Spill Number/Closed Date: 9913455 / 2003-07-10 spillno: 9913455 Site ID: 298823				
ABANDONED SERVICE ST	1471 WEST FARM RD	W 0 - 1/8 (0.053 mi.)	B5	26
Spill Number/Closed Date: 0300164 / 2003-09-08 spillno: 0300164 Site ID: 85601				
UNDERGROUND TRANSFOR	1565 WEST FARMS RD	N 0 - 1/8 (0.062 mi.)	C7	29
Spill Number/Closed Date: 9712148 / 2009-08-19 spillno: 9712148 Site ID: 187219				
I/A/O BOONEY AVE & 1	BOONEY AVE & 172ND S	NW 0 - 1/8 (0.070 mi.)	D8	31
Spill Number/Closed Date: 0903264 / 2009-06-26 spillno: 0903264 Site ID: 415365				
LOT 9,TAXBLOCK 3014	***1544 BOONE AVENUE***	***NNW 0 - 1/8 (0.071 mi.)***	***C9***	***32***
Spill Number/Closed Date: 1403152 / 2017-04-25 spillno: 1403152 Site ID: 496500				
BRONX RIVER	EAST 172ND ST/WESTCH	S 0 - 1/8 (0.074 mi.)	E10	35
Spill Number/Closed Date: 9800775 / 2003-02-12 spillno: 9800775 Site ID: 306169				
PRIVATE RESIDENCE	1277 BRONX RIVER AVE	ESE 0 - 1/8 (0.092 mi.)	F12	38
Spill Number/Closed Date: 0910947 / Not Reported spillno: 0910947 Site ID: 423722				
STRIP MALL	1299-1309 BRONX RIVE	E 0 - 1/8 (0.106 mi.)	H20	52
Spill Number/Closed Date: 0911990 / 2010-03-05 spillno: 0911990 Site ID: 424851				
BRONX EAST 03A DOS -	1661 WEST FARMS ROAD	N 0 - 1/8 (0.113 mi.)	I27	66
Spill Number/Closed Date: 0314316 / 2005-05-09 Spill Number/Closed Date: 0011836 / 2009-04-09 Spill Number/Closed Date: 9810571 / Not Reported spillno: 0314316 spillno: 0011836 spillno: 9810571 Site ID: 258760 Site ID: 131988 Site ID: 131989				
DRUM RUN - PARKING L	1321 BRONX RIVER AVE	E 0 - 1/8 (0.124 mi.)	H35	112
Spill Number/Closed Date: 0505211 / 2005-09-29 spillno: 0505211				

Site ID: 350267				
THOMAS RES Spill Number/Closed Date: 9815456 / 2004-06-16 spillno: 9815456 Site ID: 225191	1252 BRONX RIVER AVE	SE 1/8 - 1/4 (0.134 mi.)	K42	121
215315; 1243 BRONX R Spill Number/Closed Date: 0913981 / 2009-01-27 spillno: 0913981 Site ID: 432904	1243 BRONX RIVER AVE	SSE 1/8 - 1/4 (0.136 mi.)	K43	122
MANHOLE 27283 Spill Number/Closed Date: 0007945 / 2000-10-02 spillno: 0007945 Site ID: 124687	W FARM RD/E 173 RD S	NNE 1/8 - 1/4 (0.136 mi.)	I44	123
ON SIDEWALK Spill Number/Closed Date: 0313583 / 2004-06-07 spillno: 0313583 Site ID: 158969	1259 EVERGREEN AVE	SE 1/8 - 1/4 (0.137 mi.)	F45	125
0940 (TRANFORMER MAN Spill Number/Closed Date: 0011553 / 2001-06-05 spillno: 0011553 Site ID: 247306	E 173 ST & W FARMS R	NNE 1/8 - 1/4 (0.137 mi.)	I46	126
APEX SALES, TOWING & Spill Number/Closed Date: 0605983 / 2006-08-29 spillno: 0605983 Site ID: 369262	***1235 BRONX RIVER AVE***	***SSE 1/8 - 1/4 (0.142 mi.)***	***K49***	***130***
1255 EVERGREEN AVENU Spill Number/Closed Date: 9312214 / 1994-01-17 spillno: 9312214 Site ID: 292227	1255 EVERGREEN AVENU	SE 1/8 - 1/4 (0.143 mi.)	K50	134
NYC BD OF ED - PUBLI Spill Number/Closed Date: 1103358 / 2011-09-19 spillno: 1103358 Site ID: 450919	***1434 LONGFELLOW AVE***	***WSW 1/8 - 1/4 (0.152 mi.)***	***N53***	***158***
1498 BRYANT AVE Spill Number/Closed Date: 0409544 / 2004-11-30 spillno: 0409544 Site ID: 334305	1498 BRYANT AVE	WNW 1/8 - 1/4 (0.156 mi.)	L56	165
PRIVATE HOME Spill Number/Closed Date: 0713851 / 2008-04-02 spillno: 0713851 Site ID: 395674	1447 LONGFELLOW AVE	WSW 1/8 - 1/4 (0.165 mi.)	N58	168
ADHESIVE PRODUCTS CO Spill Number/Closed Date: 9203740 / 2001-03-21 spillno: 9203740 Site ID: 217467	***1660-1684 BOONE AVE***	***N 1/8 - 1/4 (0.166 mi.)***	***O59***	***170***
SERVICE BOX 2252 Spill Number/Closed Date: 9912859 / 2000-03-02 spillno: 9912859 Site ID: 162355	1230 COLGATE AV	SE 1/8 - 1/4 (0.168 mi.)	K63	181
1534 BRYANT AVE/BRON	1534 BRYANT AVENUE	NW 1/8 - 1/4 (0.172 mi.)	L68	205

Spill Number/Closed Date: 8809969 / 1989-08-01
spillno: 8809969
Site ID: 122310

MANHOLE 17607 ***1431 LONGFELLOW AVE*** ***WSW 1/8 - 1/4 (0.185 mi.)*** ***N76*** ***215***
Spill Number/Closed Date: 0201783 / 2002-06-07
spillno: 0201783
Site ID: 257480

NYC HUMAN RESOURCES 1209 COLGATE AVENUE SSE 1/8 - 1/4 (0.194 mi.) X88 240
Spill Number/Closed Date: 9712845 / 1998-02-18
Spill Number/Closed Date: 9704954 / 1997-11-19
Spill Number/Closed Date: 9700109 / 2012-09-25
spillno: 9700109
spillno: 9704954
spillno: 9712845
Site ID: 74616
Site ID: 74617
Site ID: 140405

SPILL NUMBER 0107623 1700 BOONE AVE/174TH N 1/8 - 1/4 (0.195 mi.) S89 245
Spill Number/Closed Date: 0107623 / 2001-10-25
spillno: 0107623
Site ID: 289585

SPILL NUMBER 9912609 1508 EAST 172ND ST ESE 1/8 - 1/4 (0.199 mi.) R90 246
Spill Number/Closed Date: 9912609 / 2003-02-26
spillno: 9912609
Site ID: 136877

APT BLDG 1555 BRYANT AVE NNW 1/8 - 1/4 (0.202 mi.) T94 252
Spill Number/Closed Date: 0812688 / 2013-06-14
spillno: 0812688
Site ID: 410321

MANHOLE 495 WEST FARM RD/ FREEDM SW 1/8 - 1/4 (0.204 mi.) Z95 253
Spill Number/Closed Date: 9908693 / 2002-02-22
spillno: 9908693
Site ID: 298677

ALLIANCE ENERGY LLC 1441 WESTCHESTER AVE SSE 1/8 - 1/4 (0.209 mi.) X97 256
Spill Number/Closed Date: 1215865 / 2013-03-04
spillno: 1215865
Site ID: 479197

BELOW DISPENSORS 1441 WESTCHESTER AVE SSE 1/8 - 1/4 (0.209 mi.) X98 257
Spill Number/Closed Date: 1311378 / 2014-03-31
spillno: 1311378
Site ID: 492273

GETTY #329 ***1441 WESTCHESTER AVE*** ***SSE 1/8 - 1/4 (0.209 mi.)*** ***X99*** ***258***
Spill Number/Closed Date: 0810395 / 2009-01-29
Spill Number/Closed Date: 0803178 / 2008-06-17
Spill Number/Closed Date: 0801685 / 2008-05-15
Spill Number/Closed Date: 0800752 / 2008-04-18
Spill Number/Closed Date: 0713251 / 2008-03-17
**Additional key fields are available in the Map Findings section*
spillno: 0504506
spillno: 0704745
spillno: 0612795
spillno: 0600017

spillno: 0711051
**Additional key fields are available in the Map Findings section*
Site ID: 349363
Site ID: 384958
Site ID: 377723
Site ID: 361936
Site ID: 392464
**Additional key fields are available in the Map Findings section*

GETTY GAS STATION	1441 WESTCHESTER AVE	SSE 1/8 - 1/4 (0.209 mi.)	X100	269
Spill Number/Closed Date: 1215811 / 2013-03-29				
spillno: 1215811				
Site ID: 479143				
BRONX RIVER AV/WESTC	BX RIVER AV/WESTCHES	SSE 1/8 - 1/4 (0.212 mi.)	X101	271
Spill Number/Closed Date: 9511693 / 1995-12-15				
spillno: 9511693				
Site ID: 295537				
WESTCHESTER @ CLOSE	WESTCHESTER AV @ CLO	SSE 1/8 - 1/4 (0.212 mi.)	X104	275
Spill Number/Closed Date: 8909355 / 1989-12-29				
spillno: 8909355				
Site ID: 163893				
DRUM RUN	***1695 BOONE AVE***	***N 1/8 - 1/4 (0.214 mi.)***	***AA105***	***276***
Spill Number/Closed Date: 1201278 / 2012-06-21				
spillno: 1201278				
Site ID: 463965				
INTERSECTION	FREEMAN AVE/LONGFELL	SW 1/8 - 1/4 (0.216 mi.)	Z106	278
Spill Number/Closed Date: 0201888 / 2004-01-12				
spillno: 0201888				
Site ID: 263520				
CONED	VYSE AVE AND 172ND	WNW 1/8 - 1/4 (0.217 mi.)	107	279
Spill Number/Closed Date: 1103138 / 2011-08-11				
spillno: 1103138				
Site ID: 450690				
AMBUTRANS HOLDING CO	***1028 FREEMAN STREET***	***SW 1/8 - 1/4 (0.218 mi.)***	***Z110***	***283***
Spill Number/Closed Date: 0302597 / 2006-04-10				
spillno: 0302597				
Site ID: 207170				
NYC DEPT OF EDUCATIO	***1550 VYSE AVE***	***NW 1/8 - 1/4 (0.218 mi.)***	***AB111***	***286***
Spill Number/Closed Date: 1109764 / 2011-11-09				
spillno: 1109764				
Site ID: 457546				
OUTSIDE	1550 VYSE AVE	NW 1/8 - 1/4 (0.218 mi.)	AB112	291
Spill Number/Closed Date: 1110947 / 2012-04-17				
spillno: 1110947				
Site ID: 458812				
LOT 17,TAXBLOCK 3015	***1704 BOONE AVENUE***	***N 1/8 - 1/4 (0.230 mi.)***	***AA117***	***300***
Spill Number/Closed Date: 0107083 / 2003-08-18				
spillno: 0107083				
Site ID: 285329				
DRUM RUN	JENNINGS ST AND VYSE	W 1/8 - 1/4 (0.230 mi.)	118	302
Spill Number/Closed Date: 1511795 / 2016-03-22				
spillno: 1511795				

Site ID: 524578

COMMERCIAL BUILDING	1471 WESTCHESTER AVE	SE 1/8 - 1/4 (0.232 mi.)	AC119	303
Spill Number/Closed Date: 1110688 / 2011-12-05				
Spill Number/Closed Date: 1110694 / 2011-12-02				
spillno: 1110688				
spillno: 1110694				
Site ID: 458536				
Site ID: 458542				
SPILL NUMBER 0330022	1406-8 BRYANT AVE	WSW 1/8 - 1/4 (0.233 mi.)	Y120	306
Spill Number/Closed Date: 0330022 / 2003-09-02				
spillno: 0330022				
Site ID: 78348				
1712 LONGFELLOW AVE	1712 LONGFELLOW AVE	N 1/8 - 1/4 (0.235 mi.)	AA122	308
Spill Number/Closed Date: 9512742 / 1996-01-16				
spillno: 9512742				
Site ID: 305153				
GETTY S/S #268 - GET	***1185 BRONX RIVER AVE***	***S 1/8 - 1/4 (0.236 mi.)***	***AE123***	***309***
Spill Number/Closed Date: 0810541 / 2009-02-13				
Spill Number/Closed Date: 0809157 / 2008-11-18				
Spill Number/Closed Date: 0713291 / 2008-03-17				
Spill Number/Closed Date: 0704838 / 2007-08-01				
Spill Number/Closed Date: 0702919 / 2008-11-24				
**Additional key fields are available in the Map Findings section*				
spillno: 0504618				
spillno: 0704838				
spillno: 0702919				
spillno: 0515004				
spillno: 0604641				
**Additional key fields are available in the Map Findings section*				
Site ID: 349491				
Site ID: 385058				
Site ID: 382738				
Site ID: 361863				
Site ID: 367653				
**Additional key fields are available in the Map Findings section*				
GETTY # 268	1185 BRONXRIVER AVE	S 1/8 - 1/4 (0.236 mi.)	AE125	327
Spill Number/Closed Date: 0902005 / 2009-05-26				
spillno: 0902005				
Site ID: 414034				
BRONX RIVER	WESTCHESTER AVE/EDGE	SSW 1/8 - 1/4 (0.237 mi.)	AF126	328
Spill Number/Closed Date: 0506235 / 2005-08-22				
spillno: 0506235				
Site ID: 351408				
VAULT 1744	EDGEWATER RD AND WES	SSW 1/8 - 1/4 (0.237 mi.)	AF127	330
Spill Number/Closed Date: 0507685 / 2007-05-03				
spillno: 0507685				
Site ID: 353141				
PRIVATE RESIDENCE	1529 EAST 172ND ST	E 1/8 - 1/4 (0.238 mi.)	AG128	331
Spill Number/Closed Date: 1006964 / 2011-02-02				
spillno: 1006964				
Site ID: 440345				
PRIVATE HOME	1529 E 172ND ST	E 1/8 - 1/4 (0.238 mi.)	AG129	333

Spill Number/Closed Date: 0612670 / 2007-05-30
spillno: 0612670
Site ID: 377562

WESTCHESTER OFF RAMP	SHERIDAN EXPRESSWAY	SSW 1/8 - 1/4 (0.239 mi.)	AF131	336
Spill Number/Closed Date: 0700426 / 2007-04-13 spillno: 0700426 Site ID: 379768				
SHERATON EXPRESSWAY	SERVICE RD&WESTCHEST	SSW 1/8 - 1/4 (0.239 mi.)	AF132	337
Spill Number/Closed Date: 9611127 / 1998-06-03 spillno: 9611127 Site ID: 163422				
AUTO REPAIR SHOP	1452 WESTCHESTER AVE	SSE 1/8 - 1/4 (0.241 mi.)	133	338
Spill Number/Closed Date: 1100018 / 2013-03-12 spillno: 1100018 Site ID: 447383				
FBHC	***1 WEST FARMS ROAD***	***SSW 1/8 - 1/4 (0.241 mi.)***	***134***	***339***
Spill Number/Closed Date: 9601923 / 1996-05-09 spillno: 9601923 Site ID: 60333				
ROADWAY	1252 ELDER AVE	ESE 1/8 - 1/4 (0.248 mi.)	AD137	346
Spill Number/Closed Date: 1108703 / 2012-01-12 spillno: 1108703 Site ID: 456444				
SERVICE BOX # 22971	1745 WEST FARMS RD	NNE 1/8 - 1/4 (0.249 mi.)	138	347
Spill Number/Closed Date: 1400071 / 2014-05-15 spillno: 1400071 Site ID: 493295				
VAULT 1910	EVERGREEN AVE/WESTCH	SE 1/8 - 1/4 (0.250 mi.)	AC139	348
Spill Number/Closed Date: 0305206 / 2003-09-19 spillno: 0305206 Site ID: 270893				

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX RIVER	WESTCHESTER AVE	S 1/8 - 1/4 (0.205 mi.)	X96	254
Spill Number/Closed Date: 0008407 / 2005-05-03 spillno: 0008407 Site ID: 325485				

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2017 has revealed that there are 4 RCRA NonGen / NLR sites within approximately 0.125 miles of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYC DEP	***1508 BOONE AVE***	***NW 0 - 1/8 (0.057 mi.)***	***B6***	***27***
CON EDISON	***1524 LONGFELLOW AVE***	***NW 0 - 1/8 (0.104 mi.)***	***D19***	***50***
CON EDISON	***1526 LONGFELLOW AVE***	***NW 0 - 1/8 (0.109 mi.)***	***D23***	***60***
NYC DEPT OF SANITATI	***1661 W FARMS RD BX-W***	***N 0 - 1/8 (0.113 mi.)***	***I26***	***64***

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 01/30/2017 has revealed that there are 55 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUNTS POINT AUTO WRE EPA ID: NYD083059899	***1480 SHERIDAN EXPWY***	***WSW 0 - 1/8 (0.013 mi.)***	***A2***	***12***
J & A SERVICE - CLOS EPA ID: NYR000115212	***1471 W FARMS RD***	***W 0 - 1/8 (0.047 mi.)***	***B3***	***16***
NYC DEP EPA ID: NYP003664406	***1508 BOONE AVE***	***NW 0 - 1/8 (0.057 mi.)***	***B6***	***27***
CON EDISON EPA ID: NYP004599866	1521 BOONE AVE	NW 0 - 1/8 (0.078 mi.)	D11	36
CONSOLIDATED EDISON EPA ID: NYP004104113	1267 BRONX RIVER AVE	SE 0 - 1/8 (0.097 mi.)	F13	39
NYCSCA - PUBLIC SCHO EPA ID: NY0000375709	***1001 JENNINGS ST***	***W 0 - 1/8 (0.102 mi.)***	***G15***	***42***
CON EDISON EPA ID: NYP004786695	1524 LONGFELLOW AVE	NW 0 - 1/8 (0.104 mi.)	D17	48
CON EDISON EPA ID: NYP004762779	1526 LONGFELLOW AVE	NW 0 - 1/8 (0.109 mi.)	D24	61
CON EDISION EPA ID: NYP004592275	1559 BOONE AV	NNW 0 - 1/8 (0.116 mi.)	J33	109
CON EDISON EPA ID: NYP004163549	***1243 BRONX RIVER AVE***	***SSE 1/8 - 1/4 (0.127 mi.)***	***K36***	***113***
CON EDISON EPA ID: NYP004788394	1499 LONGFELLOW	WNW 1/8 - 1/4 (0.133 mi.)	L40	118
CON EDISON EPA ID: NYP004762522	1499 LONGFELLOW AVE	WNW 1/8 - 1/4 (0.133 mi.)	L41	120
CON EDISON EPA ID: NYP004667457	W FARMS RD & E 173RD	NNE 1/8 - 1/4 (0.137 mi.)	I47	127
CON EDISON EPA ID: NYP004516092	E 173RD ST & WEST FA	NNE 1/8 - 1/4 (0.137 mi.)	I48	129
NYCHA - WEST FARMS R EPA ID: NYR000151274	***1323 W FARMS RD***	***SW 1/8 - 1/4 (0.148 mi.)***	***M51***	***135***
ALEX AUTO REPAIR SHO EPA ID: NYR000063396	***1006 E 173RD ST***	***N 1/8 - 1/4 (0.150 mi.)***	***J52***	***155***
NYC BD OF ED - PUBLI	***1434 LONGFELLOW AVE***	***WSW 1/8 - 1/4 (0.152 mi.)***	***N53***	***158***

EPA ID: NYR000010553				
CON EDISON EPA ID: NYP004795753	173RD ST & BOONE AVE	N 1/8 - 1/4 (0.152 mi.)	O54	163
CON EDISON EPA ID: NYP004534368	1252 EVERGREEN AVE	ESE 1/8 - 1/4 (0.161 mi.)	P57	167
ADHESIVE PRODUCTS CO EPA ID: NYD001360031	***1660-1684 BOONE AVE***	***N 1/8 - 1/4 (0.166 mi.)***	***O59***	***170***
CON EDISION EPA ID: NYP004592804	1674 BOONE AV	N 1/8 - 1/4 (0.166 mi.)	O60	177
CON EDISON EPA ID: NYP004599288	1314 WEST FARMS ROAD	SW 1/8 - 1/4 (0.167 mi.)	M61	178
CON EDISON EPA ID: NYP004588950	1456 BRYANT AVE	W 1/8 - 1/4 (0.168 mi.)	Q62	180
CON EDISON EPA ID: NYP004685558	1661 BOONE AVENUE F/	N 1/8 - 1/4 (0.169 mi.)	O64	183
CON EDISON EPA ID: NYP004708434	E 172 ST & WHEELER A	ESE 1/8 - 1/4 (0.172 mi.)	R65	184
NYNEX EPA ID: NYP000923318	172ND ST & WHEELER A	ESE 1/8 - 1/4 (0.172 mi.)	R66	186
CON EDISON EPA ID: NYP004612487	1715 WEST FARM RD	NNE 1/8 - 1/4 (0.177 mi.)	S70	208
CON EDISON EPA ID: NYP004593901	1548 BRYANT AV	NNW 1/8 - 1/4 (0.181 mi.)	T71	208
CON EDISON EPA ID: NYP004775029	1491 BRYANT AVE	WNW 1/8 - 1/4 (0.181 mi.)	U73	211
CON ED EPA ID: NYP004775045	1481 BRYANT AVE	WNW 1/8 - 1/4 (0.182 mi.)	U75	213
MANHOLE 17607 EPA ID: NYP004098471	***1431 LONGFELLOW AVE***	***WSW 1/8 - 1/4 (0.185 mi.)***	***N76***	***215***
CON EDISON EPA ID: NYP004850059	1465 BRYANT AVE	W 1/8 - 1/4 (0.185 mi.)	Q77	218
CON EDISON EPA ID: NYP004661518	1350 BRONX RIVER AV	ENE 1/8 - 1/4 (0.186 mi.)	V78	220
CON EDISON EPA ID: NYP004656542	1350 BRONX RIVER AV	ENE 1/8 - 1/4 (0.186 mi.)	V79	221
CON EDISON EPA ID: NYP004656567	1236 EVERGREEN AV	SE 1/8 - 1/4 (0.186 mi.)	P80	223
CON EDISON EPA ID: NYP004638474	1236 EVERGREEN AV	SE 1/8 - 1/4 (0.186 mi.)	P81	224
J KAUFMAN IRON WORKS EPA ID: NYR000100537	***1685 BOONE AVE***	***N 1/8 - 1/4 (0.188 mi.)***	***O82***	***226***
CON EDISON EPA ID: NYP004623005	1558 BRYANT AV	NNW 1/8 - 1/4 (0.189 mi.)	T83	229
CON EDISON EPA ID: NYP004643268	1327 ELDER AVE	E 1/8 - 1/4 (0.189 mi.)	W84	231
CON EDISON	1323 ELDER AV	E 1/8 - 1/4 (0.190 mi.)	W85	232

EPA ID: NYP004662086				
LETTERA SIGN & ELECT	***1209 BRONX RIVER AVE***	***SSE 1/8 - 1/4 (0.190 mi.)***	***X86***	***234***
EPA ID: NYP004671046				
EPA ID: NYD001345529				
CON EDISON	1455 BRYANT AVE	W 1/8 - 1/4 (0.194 mi.)	Q87	239
EPA ID: NYP004681326				
CON EDISON	1432 BRYANT AVE	WSW 1/8 - 1/4 (0.199 mi.)	Y91	248
EPA ID: NYP004588968				
CON EDISON	1670 LONG FELLOW AV	N 1/8 - 1/4 (0.200 mi.)	O93	250
EPA ID: NYP004594099				
CON EDISON MANHOLE 2	***BRONX RIVER AVE & CL***	***SSE 1/8 - 1/4 (0.212 mi.)***	***X102***	***272***
EPA ID: NYP004246114				
NYNEX	BRONX RIV RD & WESTC	SSE 1/8 - 1/4 (0.212 mi.)	X103	274
EPA ID: NYP000913939				
CON EDISON	W 172ND ST & ELDER A	E 1/8 - 1/4 (0.217 mi.)	R108	280
EPA ID: NYP004818714				
NYC DEPT OF EDUCATIO	***1550 VYSE AVE***	***NW 1/8 - 1/4 (0.218 mi.)***	***AB111***	***286***
EPA ID: NY0000903526				
CON EDISON	1000 FREEMAN ST	SW 1/8 - 1/4 (0.225 mi.)	Z113	292
EPA ID: NYP004725065				
CON EDISON	1214 EVERGREEN AVE	SE 1/8 - 1/4 (0.226 mi.)	AC115	295
EPA ID: NYP004567970				
GETTY PETROLEUM CORP	***1720 BOONE AVE & E 1***	***N 1/8 - 1/4 (0.227 mi.)***	***AA116***	***296***
EPA ID: NYR000047670				
CONSOLIDATED EDISON	1249 ELDER AVE SB193	ESE 1/8 - 1/4 (0.234 mi.)	AD121	307
EPA ID: NYP004117529				
GETTY PETROLEUM CORP	***1185 BRONX RIVER AVE***	***S 1/8 - 1/4 (0.236 mi.)***	***AE124***	***323***
EPA ID: NYD987002003				
CON EDISON	1565 VYSE AV	NW 1/8 - 1/4 (0.244 mi.)	AB135	343
EPA ID: NYP004592374				
CON EDISON	1571 VYSE AVE	NW 1/8 - 1/4 (0.245 mi.)	AB136	344
EPA ID: NYP004672010				

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2016 has revealed that there are 10 NJ MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON	1524 LONGFELLOW AVE	NW 0 - 1/8 (0.104 mi.)	D18	49
EPA Id: NYP004786695				
CON EDISON	1526 LONGFELLOW AVE	NW 0 - 1/8 (0.109 mi.)	D25	62
EPA Id: NYP004762779				
CON EDISON	1499 LONGFELLOW	WNW 1/8 - 1/4 (0.133 mi.)	L38	116
EPA Id: NYP004788394				
CON EDISON	1499 LONGFELLOW AVE	WNW 1/8 - 1/4 (0.133 mi.)	L39	117

EPA Id: NYP004762522				
NYCHA - WEST FARMS R EPA ID: NYR000151274	***1323 W FARMS RD***	***SW 1/8 - 1/4 (0.148 mi.)***	***M51***	***135***
CON EDISON EPA Id: NYP004795753	173RD ST & BOONE AVE	N 1/8 - 1/4 (0.152 mi.)	O55	164
CON EDISON EPA Id: NYP004775029	1491 BRYANT AVE	WNW 1/8 - 1/4 (0.181 mi.)	U72	210
CON EDISON EPA Id: NYP004775045	1481 BRYANT AVE	WNW 1/8 - 1/4 (0.182 mi.)	U74	212
CON EDISON EPA Id: NYP004818714	W 172ND ST & ELDER A	E 1/8 - 1/4 (0.217 mi.)	R109	282
CON EDISON EPA Id: NYP004725065	1000 FREEMAN ST	SW 1/8 - 1/4 (0.225 mi.)	Z114	293

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON - EAST 17	WEST FARMS RD. AND B	NE 1/8 - 1/4 (0.131 mi.)	37	116

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
CE - E. 173RD ST. - BRONX WORKS	NY ENG CONTROLS, NY INST CONTROL, NY VCP
CE - ZEREGA AVE. STATION	NY VCP

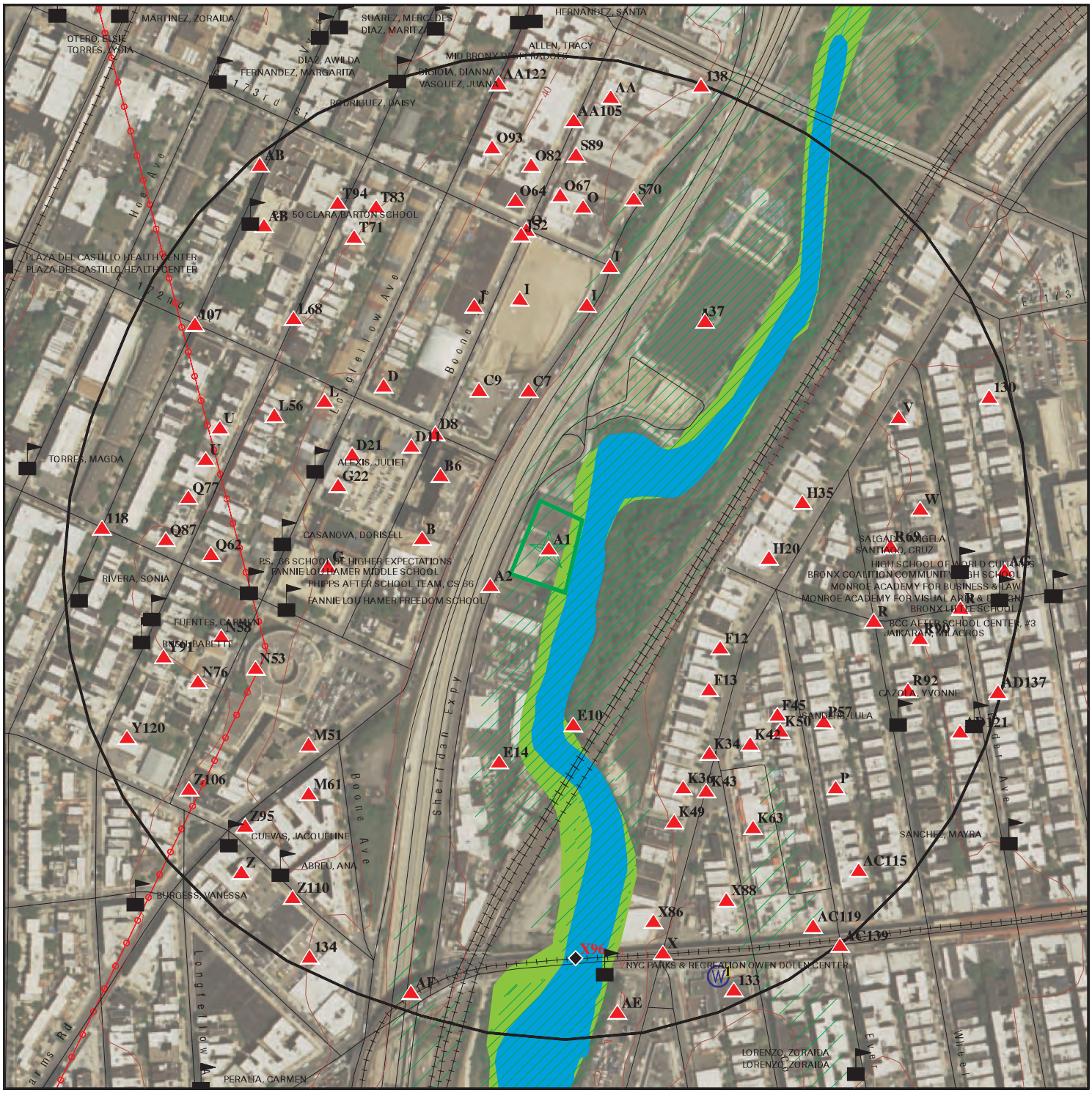
OVERVIEW MAP - 5071514.2S



SITE NAME:	1460 Sheridan Expressway	CLIENT:	LCS, Inc
ADDRESS:	1460 Sheridan Expressway Bronx NY 10459	CONTACT:	Ashley Stegmaier
		INQUIRY #:	5071514.2s
LAT/LONG:	40.831628 / 73.884168	DATE:	October 09, 2017 10:50 am

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DETAIL MAP - 5071514.2S



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 1460 Sheridan Expressway	CLIENT: LCS, Inc
ADDRESS: 1460 Sheridan Expressway Bronx NY 10459	CONTACT: Ashley Stegmaier INQUIRY #: 5071514.2s
LAT/LONG: 40.831628 / 73.884168	DATE: October 09, 2017 10:52 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.250		0	0	NR	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.125		0	NR	NR	NR	NR	0
RCRA-SQG	0.125		1	NR	NR	NR	NR	1
RCRA-CESQG	0.125		2	NR	NR	NR	NR	2
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
NY SHWS	1.000		0	0	0	1	NR	1
NY VAPOR REOPENED	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
NY SWF/LF	0.500		1	0	1	NR	NR	2
State and tribal leaking storage tank lists								
INDIAN LUST	0.500		0	0	0	NR	NR	0
NY LTANKS	0.250		2	5	NR	NR	NR	7
NY HIST LTANKS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
NY UST	0.125		2	NR	NR	NR	NR	2
NY CBS UST	0.125		0	NR	NR	NR	NR	0
NY MOSF UST	0.125		0	NR	NR	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
NY CBS	0.250		1	2	NR	NR	NR	3
NY AST	0.125	1	7	NR	NR	NR	NR	8
NY CBS AST	0.125		0	NR	NR	NR	NR	0
NY MOSF AST	0.125		0	NR	NR	NR	NR	0
INDIAN UST	0.125		0	NR	NR	NR	NR	0
NY TANKS	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
NY RES DECL	0.180		2	0	NR	NR	NR	2
NY ENG CONTROLS	0.250		0	0	NR	NR	NR	0
NY INST CONTROL	0.500		0	0	1	NR	NR	1
State and tribal voluntary cleanup sites								
NY VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
NY BROWNFIELDS	0.500		0	0	2	NR	NR	2
NY ERP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	TP		NR	NR	NR	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
NY SWTIRE	TP		NR	NR	NR	NR	NR	0
NY SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	TP		NR	NR	NR	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
NY HIST UST	0.125		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY HIST AST	0.125		0	NR	NR	NR	NR	0
Local Land Records								
NY LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.250		10	50	NR	NR	NR	60
NY Hist Spills	0.250		0	0	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.125		4	NR	NR	NR	NR	4
FUDS	1.000		0	0	0	0	NR	0
DOD	TP		NR	NR	NR	NR	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	0.125		0	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	0.125		0	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
NY AIRS	TP		NR	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY DRYCLEANERS	TP		NR	NR	NR	NR	NR	0
NY E DESIGNATION	TP		NR	NR	NR	NR	NR	0
NY Financial Assurance	TP		NR	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY MANIFEST	0.250		9	46	NR	NR	NR	55
NJ MANIFEST	0.250		2	8	NR	NR	NR	10
NY SPDES	TP		NR	NR	NR	NR	NR	0
NY UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	1	0	0	NR	1
- Totals --		1	43	112	4	1	0	161

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

LKQ HUNTS POINT AUTO PARTS
1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459

NY AST **A100343938**
N/A

Site 1 of 2 in cluster A

Actual:
8 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-611085
Program Type:	PBS
UTM X:	594082.30140
UTM Y:	4520678.51867
Expiration Date:	N/A
Site Type:	Other

Affiliation Records:

Site Id:	413846
Affiliation Type:	Mail Contact
Company Name:	LKQ HUNTS POINT AUTO PARTS
Contact Type:	Not reported
Contact Name:	LOUIS SCARNATI
Address1:	1480 SHERIDAN EXPRESSWAY
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(718) 589-4444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-05-20

Site Id:	413846
Affiliation Type:	Facility Operator
Company Name:	LKQ HUNTS POINT AUTO PARTS CORP.
Contact Type:	Not reported
Contact Name:	LOUIS SCARNATI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-4444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-04-26

Site Id:	413846
Affiliation Type:	Facility Owner
Company Name:	LKQ HUNTS POINT AUTO PARTS CORP.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	500 WEST MADISON ST. STE 2800
Address2:	Not reported
City:	CHICAGO

LKQ HUNTS POINT AUTO PARTS (Continued) **A100343938**

State:	IL
Zip Code:	60661
Country Code:	001
Phone:	(312) 621-2729
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-04-26

Site Id:	413846
Affiliation Type:	Emergency Contact
Company Name:	LKQ HUNTS POINT AUTO PARTS CORP.
Contact Type:	Not reported
Contact Name:	ANTHONY MASI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 776-5936
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2014-05-20

Tank Info:

Tank Number:	001
Tank Id:	228444
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	03/26/2012
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014

LKQ HUNTS POINT AUTO PARTS (Continued) **A100343938**

Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	002
Tank Id:	244397
Material Code:	0015
Common Name of Substance:	Motor Oil

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
J02 - Dispenser - Suction Dispenser
A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	03/26/2012
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	003
Tank Id:	248048

Equipment Records:

J02 - Dispenser - Suction Dispenser
L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
E00 - Piping Secondary Containment - None
A01 - Tank Internal Protection - Epoxy Liner
D00 - Pipe Type - No Piping
I04 - Overfill - Product Level Gauge (A/G)
K02 - Spill Prevention - Transfer Station Containment
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
B01 - Tank External Protection - Painted/Asphalt Coating

LKQ HUNTS POINT AUTO PARTS (Continued) **A100343938**

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	01/01/2012
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	03/28/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	004
Tank Id:	244399
Material Code:	0021
Common Name of Substance:	Transmission Fluid

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
E00 - Piping Secondary Containment - None
A01 - Tank Internal Protection - Epoxy Liner
I01 - Overfill - Float Vent Valve
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	03/26/2012
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/29/2013
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	OO3
Tank Id:	244398
Material Code:	0010
Common Name of Substance:	Hydraulic Oil

Equipment Records:

G02 - Tank Secondary Containment - Vault (w/access)

LKQ HUNTS POINT AUTO PARTS (Continued) **A100343938**

J02 - Dispenser - Suction Dispenser
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
I01 - Overfill - Float Vent Valve
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	03/26/2012
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/29/2013
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	Not reported

A2 **HUNTS POINT AUTO WRECKERS** **RCRA-CESQG** **1000420701**
WSW **1480 SHERIDAN EXPWY** **NY LTANKS** **NYD083059899**
< 1/8 **BRONX, NY 10473** **NY MANIFEST**
0.013 mi.
67 ft. **Site 2 of 2 in cluster A**

Relative:
Higher

Actual:
14 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	HUNTS POINT AUTO WRECKERS
Facility address:	1480 SHERIDAN EXPWY BRONX, NY 10473
EPA ID:	NYD083059899
Mailing address:	SHERIDAN EXPWY BRONX, NY 10473
Contact:	Not reported
Contact address:	SHERIDAN EXPWY BRONX, NY 10473
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of

HUNTS POINT AUTO WRECKERS (Continued) **1000420701**

any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	JOSEPH SIMONE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	JOSEPH SIMONE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Site name:	HUNTS POINT AUTO WRECKERS
Classification:	Conditionally Exempt Small Quantity Generator

Date form received by agency:	07/08/1999
Site name:	HUNTS POINT AUTO WRECKERS
Classification:	Not a generator, verified

HUNTS POINT AUTO WRECKERS (Continued) **1000420701**

Date form received by agency: 05/22/1987
Site name: HUNTS POINT AUTO WRECKERS
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

LTANKS:
Site ID: 83758
Spill Number/Closed Date: 9702732 / 2005-11-28
Spill Date: 1997-06-03
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: True
SWIS: 0301
Investigator: RCEDWARD
Referred To: Not reported
Reported to Dept: 1997-06-03
CID: 267
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1997-06-03
Spill Record Last Update: 2006-01-31
Spiller Name: JOE SIMONE
Spiller Company: HUNTS POINT AUTO PARTS
Spiller Address: 1480 SHERDIAN EXPRESSWAY
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: JOE SIMONE
Spiller Phone: (718) 893-0303
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 77056
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL 3x550. Closed with water more than 5 years ago. FD required 10 year test because they were still listed as active. All 3 tanks (2 gas & 1 diesel) failed. 4/12/04-Vought-Spill transferred from Tibbe to Rommel as per Rommel. 11/28/05 -Edwards - per file - Tanks removed. Remediation report and analytical results submitted to DEC 8/97."
Remarks: "OLD TANKS WHICH WERE FILLED WITH WATER YEARS AGO WERE BEING PRESSURE TESTED PER THE FIRE DEPT FOR TEN YEAR TEST TANKS ORIGINALLY WERE FOR DIESEL AND GASOILNE"

Material:

HUNTS POINT AUTO WRECKERS (Continued) **1000420701**

Site ID:	83758
Operable Unit ID:	1045460
Operable Unit:	01
Material ID:	335666
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported
Site ID:	83758
Operable Unit ID:	1045460
Operable Unit:	01
Material ID:	335665
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

NY MANIFEST:

Country:	USA
EPA ID:	NYD083059899
Facility Status:	Not reported
Location Address 1:	1488 SHERIDAN EXPRESSWAY
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10474
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD083059899
Mailing Name:	HUNTS POINT AUTO WRECKERS
Mailing Contact:	FABRIZZIO A.
Mailing Address 1:	1488 SHERIDAN EXPRESSWAY
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10474
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2125894444

HUNTS POINT AUTO WRECKERS (Continued) **1000420701**

NY MANIFEST:

Document ID:	NYC1913578
Manifest Status:	C
seq:	Not reported
Year:	1992
Trans1 State ID:	DL7754NY
Trans2 State ID:	Not reported
Generator Ship Date:	10/20/1992
Trans1 Recv Date:	10/20/1992
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/20/1992
Part A Recv Date:	/ /
Part B Recv Date:	10/30/1992
Generator EPA ID:	NYD083059899
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980785760
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00131
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

B3 **J & A SERVICE - CLOSED** **RCRA-CESQG** **1007112495**
West **1471 W FARMS RD** **NY Spills** **NYR000115212**
< 1/8 **BRONX, NY 10460** **NY MANIFEST**
0.047 mi.
249 ft. **Site 1 of 4 in cluster B**

Relative:
Higher

Actual:
26 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	J & A SERVICE - CLOSED
Facility address:	1471 W FARMS RD

J & A SERVICE - CLOSED (Continued) **1007112495**

BRONX, NY 10460
EPA ID: NYR000115212
Mailing address: W FARMS RD
BRONX, NY 10460
Contact: ROSEMARIE TRALONGO
Contact address: W FARMS RD
BRONX, NY 10460
Contact country: US
Contact telephone: 516-227-0700
Contact email: Not reported
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: J & A SERVICE - CLOSED
Owner/operator address: W FARMS RD
BRONX, NY 10460
Owner/operator country: US
Owner/operator telephone: 516-227-0700
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/31/1979
Owner/Op end date: Not reported

Owner/operator name: ESTATE OF LOUIS ROMANO
Owner/operator address: W FARMS RD
BRONX, NY 10460
Owner/operator country: US
Owner/operator telephone: 516-227-0700
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/31/1979
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

J & A SERVICE - CLOSED (Continued) **1007112495**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: J & A SERVICE - CLOSED
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/28/2003
Site name: J & A SERVICE - CLOSED
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

SPILLS:
Facility ID: 9913455
Facility Type: ER
DER Facility ID: 241756
Site ID: 298823
DEC Region: 2
Spill Date: 2000-02-28
Spill Number/Closed Date: 9913455 / 2003-07-10
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: JHOCONNE
Referred To: Not reported
Reported to Dept: 2000-02-28
CID: 257
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Affected Persons
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2000-02-28
Spill Record Last Update: 2003-07-10
Spiller Name: Not reported

J & A SERVICE - CLOSED (Continued) **1007112495**

Spiller Company: UNKNWON
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: JIMMY FOX
Contact Phone: (212) 580-6763
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL E2MIS 130160 Feb 28, 2000 @ 10:45 Lopriore, mechanic A , reports while clean and flushing manhole # 26176 he noticed that oil was being sucked into truck. He immediately stopped cleanup. Mechanic reports approximately 1 quart of unknown oil in mud at bottom of manhole. Samples were taken and cleanup will resume as 50-499 ppm. Conduit plate (15-l-3) indicates no sewer connection. Manhole has earthen sump and Chem-lab will be notified when sample of earthen sump can be taken. Mar. 04, 2000 Cleanup completed by 00:40 hrs. by A. Guarino and E. Henn. The manhole was power washed with cleaning solution. According to A. Guarino there were no earthen sump. 400 gallons of water was removed along with 1 quart of unknown oil, which test results came back as less than 1 PPM. Tag number 24377 was removed. 03/04/00 @ 07:30 Hrs. Closed out job. 17-DEC-2002 13:40 NYSDEC Return the following question: DEC WAS GIVEN VERBAL SAMPLE RESULTS FROM CIG ON 2/28/00 AT 0500 HRS. OF 58 PPM PCB. E2MIS REPORT SAYS RESULTS ARE 1 PPM. WHY THE DISCREPANCY? This incident did not occurred until 2/28/00 at 10:45, No verbal would have been given at 05:00 on 2/28/00. NYSDEC was notified that the results of a Manhattan Electrical Distribution Incident 130079 were 58 ppm PCB by CIG R. Roach on 2/28/2000 05:18. This incidents NYS DEC spill number is 99-13455, the Manhattan incident with 58 ppm PCB is 99-13255. "
Remarks: "cleanup pending test results ref #130160"

Material:
Site ID: 298823
Operable Unit ID: 1087984
Operable Unit: 01
Material ID: 295303
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

NY MANIFEST:
Country: USA
EPA ID: NYR000115212
Facility Status: Not reported
Location Address 1: 1471 W FARMS RD
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX

J & A SERVICE - CLOSED (Continued) **1007112495**

Location State: NY
Location Zip: Not reported
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYR000115212
Mailing Name: ESTATE OF LOUIS ROMANO
Mailing Contact: JOSEPH A GOTTI
Mailing Address 1: 1471 W FARMS RD
Mailing Address 2: Not reported
Mailing City: BRONX
Mailing State: NY
Mailing Zip: 10460
Mailing Zip 4: 6001
Mailing Country: USA
Mailing Phone: 7183288528

NY MANIFEST:
Document ID: NYG2894976
Manifest Status: Not reported
seq: 01
Year: 2003
Trans1 State ID: 40580PANY
Trans2 State ID: Not reported
Generator Ship Date: 05/01/2003
Trans1 Recv Date: 05/01/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/02/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000115212
Trans1 EPA ID: NYD077444263
Trans2 EPA ID: Not reported
TSDF ID 1: NYD077444263
TSDF ID 2: Not reported
Manifest Tracking Number: Not reported
Import Indicator: Not reported
Export Indicator: Not reported
Discr Quantity Indicator: Not reported
Discr Type Indicator: Not reported
Discr Residue Indicator: Not reported
Discr Partial Reject Indicator: Not reported
Discr Full Reject Indicator: Not reported
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: Not reported
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels

J & A SERVICE - CLOSED (Continued) **1007112495**

Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

B4 **J & L AUTO SEV** **NY UST** **U001836332**
West **1471 W FARMS RD** **N/A**
< 1/8 **NEW YORK, NY 10460**
0.047 mi.
249 ft. **Site 2 of 4 in cluster B**

Relative:
Higher

Actual:
26 ft.

UST:
Id/Status: 2-259772 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 594019.27529
UTM Y: 4520670.40451
Site Type: Retail Gasoline Sales

Affiliation Records:
Site Id: 10816
Affiliation Type: Facility Owner
Company Name: ESTATE OF LOUIS ROMANO
Contact Type: Not reported
Contact Name: Not reported
Address1: 1481 W FARMS RD
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10460
Country Code: 001
Phone: (212) 328-8528
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 10816
Affiliation Type: Mail Contact
Company Name: JO-ANN UBERTINI
Contact Type: Not reported
Contact Name: Not reported
Address1: 1481 W FARMS RD
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10460
Country Code: 001
Phone: (212) 328-8528
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

J & L AUTO SEV (Continued) **U001836332**

Site Id:	10816
Affiliation Type:	Facility Operator
Company Name:	J & L AUTO SEV
Contact Type:	Not reported
Contact Name:	JO-ANN UBERTINI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-8528
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	10816
Affiliation Type:	Emergency Contact
Company Name:	ESTATE OF LOUIS ROMANO
Contact Type:	Not reported
Contact Name:	JO-ANN UBERTINI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-8528
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	001
Tank ID:	18160
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1964
Date Tank Closed:	03/26/2003
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

J & L AUTO SEV (Continued) **U001836332**

J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G07 - Tank Secondary Containment - Excavation Liner

Tank Number: 002
Tank ID: 18161
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
G07 - Tank Secondary Containment - Excavation Liner

Tank Number: 003
Tank ID: 18162
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported

J & L AUTO SEV (Continued) **U001836332**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
G07 - Tank Secondary Containment - Excavation Liner

Tank Number: 004
Tank ID: 18163
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
G07 - Tank Secondary Containment - Excavation Liner

Tank Number: 005
Tank ID: 18164
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground

J & L AUTO SEV (Continued) **U001836332**

Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G07 - Tank Secondary Containment - Excavation Liner

Tank Number: 006
Tank ID: 18165
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G07 - Tank Secondary Containment - Excavation Liner

B5 **ABANDONED SERVICE STATION** **NY Spills** **S106012861**
West **1471 WEST FARM RD** **N/A**
< 1/8 **BRONX, NY**
0.053 mi.
281 ft. **Site 3 of 4 in cluster B**

Relative:
Higher

Actual:
29 ft.

SPILLS:

Facility ID:	0300164
Facility Type:	ER
DER Facility ID:	78629
Site ID:	85601
DEC Region:	2
Spill Date:	2003-04-04
Spill Number/Closed Date:	0300164 / 2003-09-08
Spill Cause:	Equipment Failure
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2003-04-04
CID:	211
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	2003-04-04
Spill Record Last Update:	2003-09-08
Spiller Name:	ROLAND FISHER
Spiller Company:	ABANDONED SERVICE STATION
Spiller Address:	1471 W FARM RD
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	ROLAND FISHER
Contact Phone:	(631) 249-3150
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT DEC Sigona sent letter notification for contaminated soil investigation on April 4, 2003. 4/8/2003-Vought-Received message from Roland Fischer (Tyree - 631-249-3150x352). Vought returned call and left message to return call. Vought received another message and again returned call and spoke with Roland. 6 (550-gallon) UST's were removed. Contaminated soil found at dispenser island. Tyree will excavate contaminated soil and take endpoint samples. Tanks in vaulted concrete on top of bedrock. Lines to be excavated are 20' long. Sidewalls will be composited and two grab samples from bottom of trench. Tank closure report will be sent including site plan, analyticals and disposal manifests. 4/24/2003-Vought-Received message from Roland on 4/14. Vought returned call on 4/24 and left message with Roland to return call with updates. 5/5/2003-Vought-Spoke with Roland and soil contamination found (30'x 20' excavation was performed, bottom was bedrock). One sample had xylene at 4000ppb. Roland will send tank closure report and spill closure report including site plan, disposal manifest and analyticals. 7/18/2003-Vought-Spoke with Roland Fisher and report is being sent to

ABANDONED SERVICE STATION (Continued) **S106012861**

NYSDEC today. 9/8/2003-Vought-UST Closure Report-May 2003-Tyree Organization-Six (550-gallon) gasoline USTs were removed in 3/03. Groundwater not encountered in excavation but suspected at depth of 60' and flowing to the southwest. Bedrock at depth of 8' below grade. USTs were in a vault constructed by direct pour of concrete onto the bedrock . Endpoint samples were collected from sidewalls and not collected from bottom due to bedrock. Soil analyticals show up to 3380ppb toluene(south wall), 70900ppb xylene(south wall) and 24000ppb napthalene(south wall). Tyree returned to site to peform additional soil removal under the former pump island area and removed 50 tons of soil. Seven subsequent soil endpoint samples were collected and soil analyticals showed two exceedances at 3050ppb xylene(west wall) and 3320ppb 1,3,5-trimethylbenzene(west wall). Spill closed by Vought as per Rommel due to 60' suspected depth to groundwater and excavation to bedrock (and hence no sensitive receptors). Spill closed by Vought. "

Remarks: "caller did tank removal and test results show soil contamination caller believes line failed causing release"

Material:

Site ID:	85601
Operable Unit ID:	866224
Operable Unit:	01
Material ID:	508245
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

B6 **NYC DEP** **RCRA NonGen / NLR** **1014395540**
NW **1508 BOONE AVE** **NY MANIFEST** **NYP003664406**
< 1/8 **BRONX, NY 10460**
0.057 mi.
301 ft. **Site 4 of 4 in cluster B**

Relative:
Higher

Actual:
30 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/19/2009
Facility name:	NYC DEP
Facility address:	1508 BOONE AVE BRONX, NY 10460
EPA ID:	NYP003664406
Mailing address:	JUNCTION BLVD FLUSHING, NY 11373
Contact:	JOANNE NURSE
Contact address:	JUNCTION BLVD FLUSHING, NY 11373
Contact country:	US
Contact telephone:	718-595-4675
Contact email:	Not reported
EPA Region:	02

NYC DEP (Continued) **1014395540**

Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

NY MANIFEST:
Country: USA
EPA ID: NYP003664406
Facility Status: Not reported
Location Address 1: 1508 BOONG AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: Not reported
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP003664406
Mailing Name: NYCDEP
Mailing Contact: NYCDEP
Mailing Address 1: 96-05 HORACE HARDING EXPRESSWAY
Mailing Address 2: Not reported
Mailing City: CORONA
Mailing State: NY
Mailing Zip: 11368
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 6465845597

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2009
Trans1 State ID: NYD049178296
Trans2 State ID: Not reported
Generator Ship Date: 06/22/2009
Trans1 Recv Date: 06/22/2009

NYC DEP (Continued) **1014395540**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/30/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP003664406
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD083377010
TSDF ID 2:	Not reported
Manifest Tracking Number:	004854799JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1300.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	1.0
Waste Code:	D002
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

C7 **UNDERGROUND TRANSFORMER** **NY Spills** **S102962130**
North **1565 WEST FARMS RD** **N/A**
< 1/8 **BRONX, NY**
0.062 mi.
329 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
29 ft.

SPILLS:

Facility ID:	9712148
Facility Type:	ER
DER Facility ID:	156430
Site ID:	187219
DEC Region:	2
Spill Date:	1998-01-30
Spill Number/Closed Date:	9712148 / 2009-08-19

UNDERGROUND TRANSFORMER (Continued) **S102962130**

Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. No DEC Response. No corrective action required.
SWIS:	0301
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	1998-01-30
CID:	233
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-01-30
Spill Record Last Update:	2009-08-19
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	***UPDATE***, ZZ
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was ENGELHARDT 114487 01/30/98 1944 HRS. G.LOPRIORE (FL) FOUND UNKNOWN SUBSTANCE IN VS 1773. SAMPLE TAKEN & YELLOW TAG PLACED IN VS. TAG #09500 FORMAN COULD NOT TELL IF THERE WAS A SUMP PUMP PRESENT DUE TO AMOUNT OF SUBSTANCE IN VS. NO SEWER CONNECTION & NO OUTSIDE IMPACT. UNKNOWN SUBSTANCE IS COMMING FROM UNDER A GARAGE DOOR UNIT FROM THE FERRIS STAHL MEYER PACKING CORP. AT 1560 BOOM AV. PHOTO REQ. CIG NOTIFY ABOUT UPDATE 2105 HRS. A REPRESENTIVE OF THE ABOVE STORE DID NOT WANT TO TALK ABOUT THE SUBSTANCE & WAS NOT CONCERNED.J.SCHLEMBACH 32616. ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~A.Bucci #57523~~~~~~~~~~~~~~~~~~~~~~ I was instructed by A.Chang told to notify CIG that this is going to be a third party spill. I spoke with R.Roach at 0821. 10 feb. 1998 16:40..... A.Tortora went out to loc. and took another sample. He is sampling for I.D not PCB. ~~~~~~ 12-FEB-98 THE SECOND SAMPLE INDICATED AGAIN INSUFICIENT MATERIAL. ENV AFFAIRS A. CHANG TO VISIT THE LOCATION AND PROVIDE DIRECTION. E. DE LA HOZ 79237 == SAMPLE RESULTS RECIEVED 3/2/98...<1PPM 1254 AROCLOR P SCHMID 58060 3/3/98 == 05-MAR-98 ENV A.CHANG RECOMMEDS TCLP SAMPLING BEFORE CLEANUP. A NEW SAMPLE WILL BE REQUESTED. From: Chang, Angel CHANGA - CONED To: Delahoz, Eddy EDELAHOZ - TAODGN cc: Cawley, Timothy P. CAWLEYT - CONED Subject: FW: By R. NEVIN 98-02528 The benzene value came below the RCRA limits. This is the job near the packaging facility and a candidate for a third party spill. Maybe we should also include it for sealing. The clean-up can proceed as less than 50ppm. 29-MAY-1998 14:30 HRS CLEANUP STARTED AT THIS LOCATION TODAY. UG L.FISCHER REPORTS THAT THERE ARE FIVE 55- GAL GARBAGE CANS OUTSIDE THE FERRIS PACKING HOUSE FILLED WITH FOUL-SMELLING MEAT BYPRODUCTS. FISCHER REQUESTED THAT DEP BE NOTIFIED. I CONTACTED ERT AND EXPLAINED THE SITUATION. ERT

UNDERGROUND TRANSFORMER (Continued) **S102962130**

LUKSHIDES SPOKE TO STANLEY BALDWIN FROM THE DEP. DEP REFERRED HER TO THE ENVIRONMENTAL POLICE UNIT (DEP DOES NOT COVER THESE TYPE OF CASES). NO ONE AVAILIABLE AT THE E.P.U. CLEANUP IN PROGRESS USING 5000 GAL TANKER. FISCHER REPORTS THERE IS NO OIL PRESENT - SLIGHT GREASY FILM & ODOR. LUKSHIDES RECOMMENDS THAT ANY FUTURE CLEANUP OF THIS MATERIAL WOULD NOT REQUIRE A TANKER TRUCK BASED ON OUR KNOWLEDGE OF THE SITUATION AND THE SAMPLE RESULTS. MAY 29, 1998 JOB COMPLETED AND TAG REMOVED. CREW REPORTS THAT HOLE HAS A FRESH WATER LEAK AND THE CITY NEEDS TO RESPOND TO THE SITUATION. 8/19/09 - Austin - Material appears to be animal waste product from a meat packing plant - not a regulated substance under the DEC spills program - Con Ed took care of material impacting their vault, and contacted NYCDEP for followup by city on this matter. closed - end "

Remarks: "unk material has entered the a underground transformer material seems to be comming from under a garage door that belongs to Ferris Stahl Meyer packing corp. at 1560 Boone Ave Bronx owner of that business has been contacted by caller but has not responded to scene spill is contained in the vs "

Material:

Site ID:	187219
Operable Unit ID:	1054764
Operable Unit:	01
Material ID:	326773
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	525.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

D8 **I/A/O BOONEY AVE & 172ND ST** **NY Spills** **S109826783**
NW **BOONEY AVE & 172ND ST** **N/A**
< 1/8 **BRONX, NY**
0.070 mi.
369 ft. **Site 1 of 9 in cluster D**

Relative:
Higher

Actual:
32 ft.

SPILLS:

Facility ID:	0903264
Facility Type:	ER
DER Facility ID:	364471
Site ID:	415365
DEC Region:	2
Spill Date:	2009-06-19
Spill Number/Closed Date:	0903264 / 2009-06-26
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2009-06-19

I/A/O BOONEY AVE & 172ND ST (Continued) **S109826783**

CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-06-19
Spill Record Last Update:	2009-06-26
Spiller Name:	Not reported
Spiller Company:	NYC DEPT OF SANITATION
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	MICHAEL MONACO
Contact Phone:	(347) 203-6886
DEC Memo:	"Garbage - not a spill FD on site"
Remarks:	"CALLER STATES THAT DUE TO A GARBAGE TRUCK FIRE THE ENTIRE CONTENTS OF THE TRUCK WERE DUMPED ON THE LENGTH OF THE ROAD. SOME OF THE RUN OFF WENT INTO THE SEWER CLEAN UP WAS DONE."

Material:

Site ID:	415365
Operable Unit ID:	1171707
Operable Unit:	01
Material ID:	2163527
Material Code:	0051A
Material Name:	garbage
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Pounds
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

C9 **LOT 9,TAXBLOCK 3014** **NY RES DECL S116291059**
NNW **1544 BOONE AVENUE** **NY Spills N/A**
< 1/8 **BRONX, NY 10460**
0.071 mi.
376 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
32 ft.

ENV RES DECL:

Borough:	BX
Tax Block:	3014
Tax Lot:	9
Reference Number:	R-208
Date Recorded:	12/5/2011
Satisfaction Date:	Not reported
CEQR Number:	10DCP017X
Application Number:	100310 ZMX

LOT 9,TAXBLOCK 3014 (Continued) **S116291059**

Recording Reference Number: 2011000423714
Type: Air
Lot Remediation Date: Not reported

Reference Number: R-208
Date Recorded: 12/5/2011
Satisfaction Date: Not reported
CEQR Number: 10DCP017X
Application Number: 100310 ZMX
Recording Reference Number: 2011000423714
Type: Hazmat
Lot Remediation Date: Not reported

Reference Number: R-208
Date Recorded: 12/5/2011
Satisfaction Date: Not reported
CEQR Number: 10DCP017X
Application Number: 100310 ZMX
Recording Reference Number: 2011000423714
Type: Noise
Lot Remediation Date: Not reported

SPILLS:
Facility ID: 1403152
Facility Type: ER
DER Facility ID: 451420
Site ID: 496500
DEC Region: 2
Spill Date: 2014-06-23
Spill Number/Closed Date: 1403152 / 2017-04-25
Spill Cause: Equipment Failure
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: RMPIPER
Referred To: Not reported
Reported to Dept: 2014-06-23
CID: Not reported
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2014-06-23
Spill Record Last Update: 2017-04-25
Spiller Name: Not reported
Spiller Company: SEDGWICK MATERIALS INC
Spiller Address: 1536 SOUTHERN BLVD
Spiller City,St,Zip: BRONX, NY
Spiller Company: 999
Contact Name: KEVIN KLEAKA

LOT 9,TAXBLOCK 3014 (Continued) **S116291059**

Contact Phone: (631) 269-8800
DEC Memo: "site is entering into NYC vcp program and impact is working with NYC OER Moore on the project. Phase II will be sent ot me for reviwew. IT is a vacant lot know and is going to be redeveloped. 8/5/14-Vought-Received email from OER Moore that Morning Jeff would you please tell us who the DEC PM is for Spill # 14-03152 (1544 Boone Avenue)? They are working through our program, and we want coordinate on the investigation.Thanks,Hannah. Vought sent reply that Hannah,The Project Manager for the spill is Ryan Piper (copied above) and you can also reach him at (718)482-4927. He is on vacation this week and will be returning to the office on Monday 8/11. As per his last notes, a Phase II report is to be sent to him for review. Thanks for the coordination as always,-Jeff. 4/21/15- DEC Piper recieved and reviewed work plan. RAWP approved though excavation of pet cont soils to encompass former tank. RAWP in DEC DOCS. spill closure report to follow. 9/7/16- DEC Piper emailed Hannah Moore for info. 2/6/2017- DEC Piper received closure report. A 14-story, 304,000 gross square foot mixed use residential/commercial retail building with 292 residential units is currently in the process of being constructed. Sub-grade construction is limited for this development; the foundation structure is predominantly slab-on-grade construction with the exception of two cellars located in the northwestern and southeastern corners of the building. The GPR survey identified ten (10) subsurface anomalies within the footprint of the former warehouse building (northwest corner of the Site) that were interpreted to represent USTs. Twenty-two (22) soil borings were installed throughout the Site to depths of 12 to 13 feet below grade surface; five (5) of the soil borings were installed proximal to the USTs identified in the GPR survey. Laboratory analysis of the soil samples detected the presence of several volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and heavy metals at concentrations exceeding regulatory standards. the soil quality in the location of the former warehouse/building in the northwestern portion of the Site (the area surrounding the historic USTs) and the area to the east and southeast of the USTs appeared to be impacted by gasoline related constituents. Spill remediation was performed in conjunction with redevelopment construction and in accordance with the scope of work presented in the Spill RAWP dated February 25, 2015. A total of 332.08 tons of grossly petroleum contaminated material from the spill area was transported for off-site disposal as non-hazardous waste to Bayshore Soil Management in Keasbey, NJ. A total of 3,777.34 tons of petroleum contaminated soil/fill from the spill area and surrounding areas that did not exhibit evidence of free petroleum product was transported for off-site disposal as non-hazardous waste. A total of 96,176 gallons of petroleum impacted groundwater was pumped from the spill area excavation and transported off-site for disposal to Clean Waters of New York in Staten Island, NY and Lorco Petroleum in Elizabeth, NJ. On September 17, 2015, IEC applied 1,911 gallons of RegenOx, chemical oxidizing solution manufactured by Regenesis. A waterproofing/vapor barrier system consisting of Bituthene Preprufe 160R 32 mils thick was installed behind all cellar blind side foundation walls below grade, Bituthene Preprufe 300R 46 mils was installed beneath all cellar foundation slabs and Husky Yellow Guard 20 mils non-waterproofing membrane was installed beneath all slab-ongrade foundation slabs. The vapor barrier membranes were installed according to manufacturer specifications. An active sub-slab depressurization system (SSDS) was

LOT 9,TAXBLOCK 3014 (Continued) **S116291059**

also installed beneath the new building foundation slab. The SSDS consists of 3-inch slotted screen PVC pipes aligned horizontally beneath the building slab and attached to 4-inch solid PVC pipe and steel risers. The SSDS was installed within porous granular material consisting of 3/4-inch stone. The SSDS horizontal screen piping provide the correct coverage in accordance with US EPA SSDS design specifications which recommend a separate vent loop/branch for every 4,000 square feet of slab area. Each branch is outfitted with a riser that extends to the roof of the building and connected to an electrical inline fan. 04/24/2017- DEC Piper - Based on work completed to date, this spill is closed. report is in DEC Docs. "

Remarks: "Soil investigation results showed gasoline contamination. Clean up will be done by Allied West Farms NY II LLC"

Material:

Site ID:	496500
Operable Unit ID:	1245986
Operable Unit:	01
Material ID:	2247065
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

E10 **BRONX RIVER** **NY Spills** **S103273668**
South **EAST 172ND ST/WESTCHESTER** **N/A**
< 1/8 **BRONX, NY**
0.074 mi.
390 ft. **Site 1 of 2 in cluster E**

Relative:
Higher

Actual:
8 ft.

SPILLS:

Facility ID:	9800775
Facility Type:	ER
DER Facility ID:	247308
Site ID:	306169
DEC Region:	2
Spill Date:	1998-04-17
Spill Number/Closed Date:	9800775 / 2003-02-12
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	KGHALE
Referred To:	Not reported
Reported to Dept:	1998-04-17
CID:	281
Water Affected:	BRONX RIVER
Spill Source:	Unknown
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported

BRONX RIVER (Continued) **S103273668**

Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-04-17
Spill Record Last Update:	2003-02-13
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	SOLLIN
Contact Phone:	(917) 769-0483
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was HALE 02/12/2003-Closed Due To The Nature / Extent Of The Spill Report."
Remarks:	"UNKNOWN MATERIAL FOUND SPILLED IN ABOVE LOCATION. FIRE DEPT ON SCENE AND ARE TRYING TO DETERMINE MATERIAL AND CAUSE OF SPILL. REQUEST CALL BACK FROM DEC ASAP."

Material:

Site ID:	306169
Operable Unit ID:	1058253
Operable Unit:	01
Material ID:	322723
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

D11 **CON EDISON** **NY MANIFEST** **S117067231**
NW **1521 BOONE AVE** **N/A**
< 1/8 **BRONX, NY 10460**
0.078 mi.
414 ft. **Site 2 of 9 in cluster D**

Relative:
Higher

Actual:
33 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004599866
Facility Status:	Not reported
Location Address 1:	1521 BOONE AVE
Code:	BP
Location Address 2:	SB 25110
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

CON EDISON (Continued) **S117067231**

NY MANIFEST:

EPAID:	NYP004599866
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/17/2014
Trans1 Recv Date:	07/17/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/18/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004599866
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503661GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008

CON EDISON (Continued) **S117067231**

Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

F12 **PRIVATE RESIDENCE** **NY Spills** **S110139489**
ESE **1277 BRONX RIVER AVE** **N/A**
< 1/8 **BRONX, NY**
0.092 mi.
485 ft. **Site 1 of 3 in cluster F**

Relative:
Higher

Actual:
30 ft.

SPILLS:

Facility ID:	0910947
Facility Type:	ER
DER Facility ID:	372630
Site ID:	423722
DEC Region:	2
Spill Date:	2010-01-10
Spill Number/Closed Date:	0910947 / Not Reported
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2010-01-11
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	2010-01-11
Spill Record Last Update:	2011-09-23
Spiller Name:	MARAYLN SILVA
Spiller Company:	MARAYLN SILVA
Spiller Address:	1277 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	MARAYLN SILVA
Contact Phone:	(718) 617-0774
DEC Memo:	" Delivery lasto ccured on 12-31-09. Tank is a vaulted 550. Oil co got service call last night at 11pm. Tank was empty on inspection. Subsurface return line assumed to be leaking. No odors in basement. Above ground line installed. Oil was put in tank. This am. oil was in tank. I spoke with Ms. Silva and instructed her to contact ins. co. as a substantial release may have occured. CSL letter sent and faxed. 9/23/11- 2nd csl letter sent."
Remarks:	"Caller reporting a leak of an unknown amount of #2 fuel oil to soil.

PRIVATE RESIDENCE (Continued) **S110139489**

Caller reporting a leak in basement, which he belives went to soil.
Clean up pending."

Material:

Site ID:	423722
Operable Unit ID:	1179529
Operable Unit:	01
Material ID:	2173254
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

F13 **CONSOLIDATED EDISON** **NY MANIFEST** **1009241870**
SE **1267 BRONX RIVER AVE MH1622** **N/A**
< 1/8 **BRONX, NY**
0.097 mi.
512 ft. **Site 2 of 3 in cluster F**

Relative:
Higher

Actual:
29 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004104113
Facility Status:	Not reported
Location Address 1:	1267 BRONX RIVER AVE MH1622
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004104113
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address 1:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124602808

NY MANIFEST:

Document ID:	NYE0629235
Manifest Status:	Not reported
seq:	01
Year:	2002

CONSOLIDATED EDISON (Continued) **1009241870**

Trans1 State ID:	74794AU
Trans2 State ID:	96590JE
Generator Ship Date:	10/30/2002
Trans1 Recv Date:	10/30/2002
Trans2 Recv Date:	10/31/2002
TSD Site Recv Date:	11/04/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004104113
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	NYD006982359
TSDF ID 1:	NYD077444263
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00341
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

E14 **LKQ HUNTS POINT AUTO PARTS CORP** **NY SWF/LF** **S108145970**
SSW **1480 SHERIDAN EXPRESSWAY** **NY CBS** **N/A**
< 1/8 **BRONX, NY 10459** **NY SPDES**
0.101 mi.
535 ft. **Site 2 of 2 in cluster E**

Relative:
Higher

Actual:
11 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185894444
Owner Name:	LKQ Hunts Point Auto Parts Corp
Owner Type:	Private
Owner Address:	1480 Sheridan Exp
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 10459
Owner Email:	jracosta@LKQcorp.com

LKQ HUNTS POINT AUTO PARTS CORP (Continued) **S108145970**

Owner Phone:	7185894444
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	[7085255]
Active:	No
East Coordinate:	593998
North Coordinate:	4520466
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

CBS:

CBS Number:	2-000383
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	594046.89405
UTMY:	4520448.82557

SPDES:

Permit Number:	NYR00B428
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5015
State Water Body Name:	BRONX RIVER
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	40.829 / -73.884
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	TABS CONSULTING GROUP INC
Non-Gov Permit Street Address:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Permit Supplemental Location:	2 52ND ST, BOX B11
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11232
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Street Address:	LKQ HUNTS POINT AUTO PARTS CORP

LKQ HUNTS POINT AUTO PARTS CORP (Continued) **S108145970**

Non-Gov Facility Supplemental Location:	1480 SHERIDAN EXPY
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10459
State Water Body:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Permit Street Address:	1480 SHERIDAN EXPY
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BRONX
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10459
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Street Address:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Supplemental Location:	1480 SHERIDAN EXPY
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10459
State Water Body:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Street Address:	LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Supplemental Location:	1480 SHERIDAN EXPY
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10459
State Water Body:	Not reported

G15 **NYCSCA - PUBLIC SCHOOL 66** **RCRA-SQG** **1004755785**
West **1001 JENNINGS ST** **NY MANIFEST** **NY0000375709**
< 1/8 **BRONX, NY 10460**
0.102 mi.
539 ft. **Site 1 of 3 in cluster G**

Relative:
Higher

Actual:
38 ft.

RCRA-SQG:

Date form received by agency:	05/25/2017
Facility name:	NYCSCA - PUBLIC SCHOOL 66
Facility address:	1001 JENNINGS ST BRONX, NY 10460
EPA ID:	NY0000375709
Mailing address:	E SECOND ST

NYCSCA - PUBLIC SCHOOL 66 (Continued) **1004755785**

SCOTCH PLAINS, NJ 07076
Contact: GARY PALLADINO
Contact address: E SECOND ST
SCOTCH PLAINS, NJ 07076
Contact country: US
Contact telephone: 908-322-3000
Contact email: ABATECH@VERIZON.NET
EPA Region: 02
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NYCSCA
Owner/operator address: THOMPSON AVE
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 09/10/1962
Owner/Op end date: Not reported

Owner/operator name: GARY PALLADINO
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: 08/30/2008
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No

NYCSCA - PUBLIC SCHOOL 66 (Continued) **1004755785**

Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 03/20/2009
Site name: NYCSCA - PUBLIC SCHOOL 66
Classification: Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 01/01/2007
Site name: NYC BD OF ED - PUBLIC SCHOOL 66 BRONX
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Site name: NYC BD OF ED - PUBLIC SCHOOL 66 BRONX
Classification: Not a generator, verified

Date form received by agency: 07/27/1995
Site name: NYC BD OF ED - PUBLIC SCHOOL 66 BRONX
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

NY MANIFEST:
Country: USA
EPA ID: NY0000375709
Facility Status: Not reported
Location Address 1: PS-66
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NY0000375709
Mailing Name: NEW YORK CITY B O E
Mailing Contact: JACK BRUCCULERI
Mailing Address 1: 30-30 THOMPSON AVE
Mailing Address 2: Not reported
Mailing City: LONG ISLAND CITY
Mailing State: NY
Mailing Zip: 11101
Mailing Zip 4: Not reported
Mailing Country: USA

NYCSCA - PUBLIC SCHOOL 66 (Continued) **1004755785**

Mailing Phone: 7183495600

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	12/20/2014
Trans1 Recv Date:	12/20/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/03/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000375709
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	MAC300017498
TSDF ID 2:	Not reported
Manifest Tracking Number:	000975891VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H039
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	36
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	11
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Waste Code:	Not reported
Waste Code 1_2:	B007
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
9 additional NY_MANIFEST: record(s) in the EDR Site Report.

G16
West
< 1/8
0.102 mi.
539 ft.

PUBLIC SCHOOL 66 - BRONX (X066)
1001 JENNINGS STREET
BRONX, NY 10460

Site 2 of 3 in cluster G

NY AST **A100173627**
N/A

Relative:
Higher

Actual:
38 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-604868
Program Type:	PBS
UTM X:	593837.21456
UTM Y:	4520622.78487
Expiration Date:	12/04/2020
Site Type:	School

Affiliation Records:

Site Id:	26737
Affiliation Type:	Facility Operator
Company Name:	PUBLIC SCHOOL 66 - BRONX (X066)
Contact Type:	Not reported
Contact Name:	TONI CUBI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 589-5696
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-09-28

Site Id:	26737
Affiliation Type:	Mail Contact
Company Name:	NEW YORK CITY DEPT. OF EDUCATION
Contact Type:	Not reported
Contact Name:	MUNENDRA SHARMA
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2:	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2017-07-31

Site Id:	26737
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY DEPT. OF EDUCATION
Contact Type:	MANAGER, FUEL DIVISION
Contact Name:	MUNENDRA SHARMA
Address1:	44-36 VERNON BOULEVARD
Address2:	Not reported
City:	LONG ISLAND CITY

PUBLIC SCHOOL 66 - BRONX (X066) (Continued) **A100173627**

State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2017-07-31

Site Id:	26737
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY DEPT. OF EDUCATION
Contact Type:	Not reported
Contact Name:	KEN MAHADEO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 210-7918
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-10-13

Tank Info:

Tank Number:	001
Tank Id:	59035
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

J02 - Dispenser - Suction Dispenser
E00 - Piping Secondary Containment - None
I02 - Overfill - High Level Alarm
K00 - Spill Prevention - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
G02 - Tank Secondary Containment - Vault (w/access)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	05/01/2000
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported

PUBLIC SCHOOL 66 - BRONX (X066) (Continued) **A100173627**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	04/14/2017
Material Name:	Not reported

D17 **CON EDISON** **NY MANIFEST** **S118091018**
NW **1524 LONGFELLOW AVE** **N/A**
< 1/8 **BRONX, NY 10460**
0.104 mi.
550 ft. **Site 3 of 9 in cluster D**

Relative:
Higher

Actual:
37 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004786695
Facility Status:	Not reported
Location Address 1:	1524 LONGFELLOW AVE
Code:	BP
Location Address 2:	MH 17629
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004786695
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	05/27/2015
Trans1 Recv Date:	05/27/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/29/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004786695
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002661100GBF

CON EDISON (Continued) **S118091018**

Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional NY_MANIFEST: record(s) in the EDR Site Report.

D18
NW
< 1/8
0.104 mi.
550 ft.

CON EDISON **NJ MANIFEST** **S120672134**
1524 LONGFELLOW AVE **N/A**
BRONX, NY 10460

Site 4 of 9 in cluster D

Relative:
Higher

Actual:
37 ft.

NJ MANIFEST:

EPA Id:	NYP004786695
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

CON EDISON (Continued) **S120672134**

Manifest:

Manifest Number:	002661100GBF
EPA ID:	NYP004786695
Date Shipped:	5/27/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

D19 **CON EDISON** **RCRA NonGen / NLR** **1019903529**
NW **1524 LONGFELLOW AVE** **FINDS** **NYP004786695**
< 1/8 **BRONX, NY 10460** **ECHO**
0.104 mi.
550 ft. **Site 5 of 9 in cluster D**

Relative:
Higher

Actual:
37 ft.

RCRA NonGen / NLR:

Date form received by agency:	05/27/2015
Facility name:	CON EDISON
Facility address:	1524 LONGFELLOW AVE BRONX, NY 10460
EPA ID:	NYP004786695
Mailing address:	IRVING PL 15TH FL NE

CON EDISON (Continued) **1019903529**

NEW YORK, NY 10003
Contact: THOMAS TEELING
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: 212-460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/27/2015
Site name: CON EDISON
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110069666631

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1019903529
Registry ID: 110069666631
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110069666631

H20 **STRIP MALL** **NY Spills** **S110140264**
East **1299-1309 BRONX RIVER RD** **N/A**
< 1/8 **BRONX, NY**
0.106 mi.
562 ft. **Site 1 of 2 in cluster H**

Relative:
Higher

Actual:
31 ft.

SPILLS:

Facility ID:	0911990
Facility Type:	ER
DER Facility ID:	373772
Site ID:	424851
DEC Region:	2
Spill Date:	2010-02-11
Spill Number/Closed Date:	0911990 / 2010-03-05
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	0301
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	2010-02-12
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-02-12
Spill Record Last Update:	2010-03-05
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	STEVEN MCGINN
Contact Phone:	(631) 427-5665
DEC Memo:	"03/04/10-Hiralkumar Patel. 12:27 PM:- spoke with Mr. McGinn and asked him to submit investigation report. 03/05/10-Hiralkumar Patel. 2:55 PM:- received phase II report from Mr. McGinn. five soil borings installed to depth of 8 ft bg. no PID readings noted. no anomalies found during GPR survey. collected five soil samples at 0-4 ft interval. minor SVOC and metal contamination found. no VOCs found. case closed."
Remarks:	"soil sampling showed metals and svoc - cleanup pending -"

Material:

Site ID:	424851
Operable Unit ID:	1180596
Operable Unit:	01
Material ID:	2174569
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	Gallons
Recovered:	.00

STRIP MALL (Continued) **S110140264**

Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

D21 **MRC 754 E 161ST ST HDFC** **NY AST** **A100177913**
WNW **1504 LONGFELLOW AVE.** **N/A**
< 1/8 **BRONX, NY 10460**
0.107 mi.
565 ft. **Site 6 of 9 in cluster D**

Relative:
Higher

Actual:
36 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-605595
Program Type: PBS
UTM X: 593888.49091
UTM Y: 4520751.95042
Expiration Date: 04/06/2021
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 27462
Affiliation Type: Facility Operator
Company Name: MRC 754 E 161ST ST HDFC
Contact Type: Not reported
Contact Name: GARRY SMITH
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (917) 416-6873
EMail: Not reported
Fax Number: Not reported
Modified By: BVCAMPBE
Date Last Modified: 2011-12-21

Site Id: 27462
Affiliation Type: Mail Contact
Company Name: C/O CORNELL PACE INC
Contact Type: Not reported
Contact Name: CELESTE VASQUEZ
Address1: 542 MAIN STREET
Address2: 4TH FLOOR
City: NEW ROCHELLE
State: NY
Zip Code: 10801
Country Code: 001
Phone: (914) 380-8220
EMail: CVASQUEZ@CORNELLPACE.COM
Fax Number: Not reported
Modified By: DMPOKRZY
Date Last Modified: 2016-10-13

MRC 754 E 161ST ST HDFC (Continued) **A100177913**

Site Id:	27462
Affiliation Type:	Emergency Contact
Company Name:	MORRISANIA REVITALIZATION CORP.
Contact Type:	Not reported
Contact Name:	ROCIO RAMOS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 380-8254
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2016-10-13

Site Id:	27462
Affiliation Type:	Facility Owner
Company Name:	MRC 754 E 161 ST HDFC
Contact Type:	VP OPERATIONS
Contact Name:	CELESTE VASQUEZ
Address1:	542 MAIN STREET 4TH FLOOR
Address2:	Not reported
City:	NEW ROCHELLE
State:	NY
Zip Code:	10801
Country Code:	001
Phone:	(914) 380-8220
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JAAVERSA
Date Last Modified:	2016-10-17

Tank Info:

Tank Number:	001
Tank Id:	60094
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

D00 - Pipe Type - No Piping
J00 - Dispenser - None
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1981

MRC 754 E 161ST ST HDFC (Continued) **A100177913**

Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	04/14/2017
Material Name:	Not reported

G22 **MRC/754 E 161ST HDFC** **NY AST** **A100177912**
WNW **1500 LONGFELLOW AVE.** **N/A**
< 1/8 **BRONX, NY 10460**
0.108 mi.
568 ft. **Site 3 of 3 in cluster G**

Relative:
Higher

Actual:
37 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-605593
Program Type:	PBS
UTM X:	593877.39260
UTM Y:	4520724.68699
Expiration Date:	04/06/2021
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	27460
Affiliation Type:	Mail Contact
Company Name:	C/O CORNELL PACE INC
Contact Type:	Not reported
Contact Name:	CELESTE VASQUEZ
Address1:	542 MAIN STREET
Address2:	4TH FLOOR
City:	NEW ROCHELLE
State:	NY
Zip Code:	10801
Country Code:	001
Phone:	(914) 380-8220
EMail:	CVASQUEZ@CORNELLPACE.COM
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2016-10-13

Site Id:	27460
Affiliation Type:	Facility Operator
Company Name:	MRC/754 E 161ST ST HDFC
Contact Type:	Not reported
Contact Name:	GARRY SMITH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 416-6873
EMail:	Not reported

MRC/754 E 161ST HDFC (Continued) **A100177912**

Fax Number: Not reported
Modified By: BVCAMPBE
Date Last Modified: 2011-12-21

Site Id: 27460
Affiliation Type: Emergency Contact
Company Name: MRC 754 E 161ST ST HDFC
Contact Type: Not reported
Contact Name: ROCIO RAMOS
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (914) 380-8254
EMail: Not reported
Fax Number: Not reported
Modified By: DMPOKRZY
Date Last Modified: 2016-10-13

Site Id: 27460
Affiliation Type: Facility Owner
Company Name: MRC 754 E 161ST ST HDFC
Contact Type: NA
Contact Name: JOEL GENDELS
Address1: 542 MAIN STREET 4TH FLOOR
Address2: Not reported
City: NEW ROCHELLE
State: NY
Zip Code: 10801
Country Code: 001
Phone: (914) 380-8220
EMail: Not reported
Fax Number: Not reported
Modified By: DMPOKRZY
Date Last Modified: 2016-10-13

Tank Info:

Tank Number: 001
Tank Id: 60092
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
A00 - Tank Internal Protection - None

Tank Location: 3

MRC/754 E 161ST HDFC (Continued) **A100177912**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1981
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	001
Tank Id:	60093
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J00 - Dispenser - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1981
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	04/14/2017
Material Name:	Not reported

Affiliation Records:

Site Id:	27461
Affiliation Type:	Facility Operator
Company Name:	MRC/754 E 161ST HDFC
Contact Type:	Not reported
Contact Name:	GARRY SMITH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported

MRC/754 E 161ST HDFC (Continued) **A100177912**

Country Code:	001
Phone:	(917) 416-6873
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	2011-12-21

Site Id:	27461
Affiliation Type:	Emergency Contact
Company Name:	MRC/754 E 161ST HDFC
Contact Type:	Not reported
Contact Name:	ROCIO RAMOS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 380-8254
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2016-10-13

Site Id:	27461
Affiliation Type:	Mail Contact
Company Name:	C/O CORNELL PACE INC
Contact Type:	Not reported
Contact Name:	CELESTE VASQUEZ
Address1:	542 MAIN STREET
Address2:	4TH FLOOR
City:	NEW ROCHELLE
State:	NY
Zip Code:	10801
Country Code:	001
Phone:	(914) 380-8220
EMail:	CVASQUEZ@CORNELLPACE.COM
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2016-10-13

Site Id:	27461
Affiliation Type:	Facility Owner
Company Name:	MRC/754 E 161ST HDFC
Contact Type:	Not reported
Contact Name:	JOEL GENDELS
Address1:	542 MAIN STREET 4TH FLOOR
Address2:	Not reported
City:	NEW ROCHELLE
State:	NY
Zip Code:	10801
Country Code:	001
Phone:	(914) 380-8220
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMPOKRZY
Date Last Modified:	2016-10-13

MRC/754 E 161ST HDFC (Continued) **A100177912**

Tank Info:

Tank Number:	001
Tank Id:	60092
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	D00 - Pipe Type - No Piping
	H00 - Tank Leak Detection - None
	I00 - Overfill - None
	B00 - Tank External Protection - None
	C00 - Pipe Location - No Piping
	F00 - Pipe External Protection - None
	G00 - Tank Secondary Containment - None
	J00 - Dispenser - None
	A00 - Tank Internal Protection - None
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1981
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	001
Tank Id:	60093
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	G00 - Tank Secondary Containment - None
	H00 - Tank Leak Detection - None
	I00 - Overfill - None
	J00 - Dispenser - None
	D00 - Pipe Type - No Piping
	A00 - Tank Internal Protection - None
	C00 - Pipe Location - No Piping
	F00 - Pipe External Protection - None
	B00 - Tank External Protection - None
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1981
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported

MRC/754 E 161ST HDFC (Continued) **A100177912**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMPOKRZY
Last Modified:	04/14/2017
Material Name:	Not reported

D23 **CON EDISON** **RCRA NonGen / NLR** **1019901510**
NW **1526 LONGFELLOW AVE** **FINDS** **NYP004762779**
< 1/8 **BRONX, NY 10460** **ECHO**
0.109 mi.
575 ft. **Site 7 of 9 in cluster D**

Relative:
Higher

Actual:
37 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/03/2015
Facility name:	CON EDISON
Facility address:	1526 LONGFELLOW AVE BRONX, NY 10460
EPA ID:	NYP004762779
Mailing address:	IRVING PL 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	212-460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	04/03/2015
Site name:	CON EDISON
Classification:	Large Quantity Generator
Violation Status:	No violations found

FINDS:

CON EDISON (Continued) **1019901510**

Registry ID: 110069646057

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1019901510
Registry ID: 110069646057
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110069646057

D24 **CON EDISON** **NY MANIFEST** **S119074145**
NW **1526 LONGFELLOW AVE** **N/A**
< 1/8 **BRONX, NY 10460**
0.109 mi.
575 ft. **Site 8 of 9 in cluster D**

Relative:
Higher

Actual:
37 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004762779
Facility Status: Not reported
Location Address 1: 1526 LONG FELLOW AVE
Code: BP
Location Address 2: M 17629
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004762779
Mailing Name: CON EDISON
Mailing Contact: DENNIS HUACON
Mailing Address 1: 4 IRVING PL 15TH FL
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124603770

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2015
Trans1 State ID: NJD003812047

CON EDISON (Continued) **S119074145**

Trans2 State ID:	Not reported
Generator Ship Date:	04/03/2015
Trans1 Recv Date:	04/03/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/07/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004762779
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002660893GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional NY_MANIFEST: record(s) in the EDR Site Report.

D25 **CON EDISON** **NJ MANIFEST** **S120670028**
NW **1526 LONGFELLOW AVE** **N/A**
< 1/8 **BRONX, NY 10460**
0.109 mi.
575 ft. **Site 9 of 9 in cluster D**

Relative:
Higher

Actual:
37 ft.

NJ MANIFEST:

EPA Id:	NYP004762779
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported

CON EDISON (Continued) **S120670028**

Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002660893GBF
EPA ID:	NYP004762779
Date Shipped:	4/3/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

I26 **NYC DEPT OF SANITATION - J SCHIAVONE** **RCRA NonGen / NLR** **1000141009**
North **1661 W FARMS RD BX-WA** **FINDS** **NYD986869774**
< 1/8 **BRONX, NY 10460** **ECHO**
0.113 mi.
596 ft. **Site 1 of 10 in cluster I**

Relative:
Higher

Actual:
23 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	NYC DEPT OF SANITATION - J SCHIAVONE
Facility address:	1661 W FARMS RD BX-WA BRONX, NY 10460
EPA ID:	NYD986869774
Mailing address:	58TH ST ROOM 404 WOODSIDE, NY 11377
Contact:	Not reported
Contact address:	58TH ST ROOM 404 WOODSIDE, NY 11377
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	CITY OF NEW YORK
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	CITY OF NEW YORK
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

NYC DEPT OF SANITATION - J SCHIAVONE (Continued) **1000141009**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: NYC DEPT OF SANITATION - J SCHIAVONE
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: NYC DEPT OF SANITATION - J SCHIAVONE
Classification: Not a generator, verified

Date form received by agency: 06/14/1988
Site name: NYC DEPT OF SANITATION - J SCHIAVONE
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: X001
. Waste name: WASTE OILS

Violation Status: No violations found

FINDS:

Registry ID: 110004436646

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000141009
Registry ID: 110004436646
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004436646

I27 **BRONX EAST 03A DOS -DDC** **NY Spills** **S104952537**
North **1661 WEST FARMS ROAD** **N/A**
< 1/8 **BRONX, NY**
0.113 mi.
596 ft. **Site 2 of 10 in cluster I**

Relative:
Higher

Actual:
23 ft.

SPILLS:

Facility ID:	0314316
Facility Type:	ER
DER Facility ID:	211726
Site ID:	258760
DEC Region:	2
Spill Date:	2004-03-31
Spill Number/Closed Date:	0314316 / 2005-05-09
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	AIIslam
Referred To:	Not reported
Reported to Dept:	2004-03-31
CID:	407
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-03-31
Spill Record Last Update:	2005-05-09
Spiller Name:	CHEIF 4 FACILITIES OP.
Spiller Company:	Not reported
Spiller Address:	1661 WEST FARMS ROAD
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	CHEIF 4 FACILITIES OP.
Contact Phone:	(212) 788-4077
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KOLLEENY TRANSFERRED TO I. ISLAM 5/9/05- The site is under remediation by LiRo Engineers. Since there is another open motor oil spill (#9810571) at the site, this spill is closed to consolidate with that one.- II."
Remarks:	"spill occured due to faulty oil water seperator, unknown ammount spilled, seperator system has been shut down."

Material:

Site ID:	258760
Operable Unit ID:	879754
Operable Unit:	01
Material ID:	495889
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Pounds
Recovered:	.00

BRONX EAST 03A DOS -DDC (Continued) **S104952537**

Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0011836
Facility Type:	ER
DER Facility ID:	113715
Site ID:	131988
DEC Region:	2
Spill Date:	2001-02-02
Spill Number/Closed Date:	0011836 / 2009-04-09
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	2001-02-02
CID:	397
Water Affected:	Not reported
Spill Source:	Vessel
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-02-02
Spill Record Last Update:	2009-04-10
Spiller Name:	Not reported
Spiller Company:	DEPT OF SANITATION SITE
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Memo:	"4/2/09 - Austin - Transferred from Needs Reassignment to Patel for further work to remediate and close - end 04/09/09-Hiralkumar Patel. visited site. site has underground oil/water separator. as per site personnel, spill was cleaned out immediately. one-time event. case closed."
Remarks:	"pipe from an oil separator leaked spilling oil. it will be pupmed out on monday."

Material:

Site ID:	131988
Operable Unit ID:	833740
Operable Unit:	01
Material ID:	542129
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50.00

BRONX EAST 03A DOS -DDC (Continued) **S104952537**

Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	9810571
Facility Type:	ER
DER Facility ID:	211726
Site ID:	131989
DEC Region:	2
Spill Date:	1998-11-20
Spill Number/Closed Date:	9810571 / Not Reported
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	AXDORONO
Referred To:	REPORT (12/29/2016) REVIEWED
Reported to Dept:	1998-11-20
CID:	382
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	5
Date Entered In Computer:	1998-11-20
Spill Record Last Update:	2017-02-01
Spiller Name:	TONY MARINO
Spiller Company:	DEPT OF SANITATION
Spiller Address:	1661 WEST FARMS RD
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	TONY MARINO
Contact Phone:	(718) 391-1062
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KOLLEENY WHILE ADVANCING GEOTECH BORING, URS FOUND FREE PRODUCT COMING INTO BOREHOLE, AT 1-2 FOOT DEPTH. ABANDONED BORING. DEC HAS ASKED FOR TIGHTNESS TEST OF NEARBY DIESEL TANK, AND DDC MUST PERFORM SITE SPECIFIC INVESTIGATION TO DETERMINE EXTENT OF CONTAMINATION. TRANSFERRED FROM Y.KRIMGOLD. The spill Lead_DEC Field is I. Islam with effect from 02/02/05. The site is under remediation by LiRo Engineers. -II 4/28/05- Reviewed the quarterly monitoring report(Nov./04-Jan./05). DEC approved NFA for soil and installation of skimmer pump at 3 wells in April, 2003. An absorbent sock has been installed to one well to subside the water level and make it conducive to skimmer operation. Persisting layer of motor oil at 3 wells is a concern and it's mentioned that malfunction of a nearby oil/water separator may be the cause. However EFR is being performed besides monthly checking of water levels and free product thickness and quarterly sampling of groundwater. Over all situation is

BRONX EAST 03A DOS -DDC (Continued) **S104952537**

improving and performance monitoring to continue as usual.- II. 7/27/05- Reviewed the monitoring report (Feb.-Apr./05). Persistent GW contamination in well MW-19 across the East 173rd St. is said to be attributed to off-site source and is not migrating to this site. It is supported by the same time sampling results of the nearby on-site wells MW-13 and MW-11. Persisting layer of motor oil at 3 wells (MW-9, MW-16 & MW-17) is still a concern even though LiRo is performing EFR on them. If the nearby existing oil/water separator malfunctioning is the root cause, then it must be taken with NYCDOS management people to fix it. The above observations and remarks are sent to LiRo & NYCDDC via email. Installed the report in the eDoc folder.- II 10/04/05- Filed the report in the eDoc.- II 3/09/06: This spill transferred from I.Islam to Q.Abidi. 07/11/06: Received email from John Busse of URS inquiring as to status of LiRo's recommendation of spill closure in their Nov. '05 - Mar. '06 monitoring report. Reviewed report and sent back following email: I'm not comfortable closing this spill/site just yet. Report notes that well MW-17 had 0.38 ft. of free product in Dec. 2005, and MW-11 had total VOCs of 462 ppb when last sampled in Aug. 2005 - not that high, but a bit higher than some of sites I've been closing recently that still had residual contamination. LiRo states in report that contamination in MW-11 is not attributable to DOS site, but they present no supporting arguments and well is clearly down-gradient from USTs at site. I suggest that URS gauge all wells for product and depth to water to determine current groundwater flow, collect groundwater samples from selected wells, and perhaps perform a Sensitive Receptor Survey in support of No Further Action request. If this seems reasonable, please put together a brief plan for groundwater sampling - i.e., let me know which wells you intend to sample so I can review them and have some input. If you strongly disagree with this approach, you or Jane should give me a call to discuss. - J. Kolleeny 07/18/06: Received email from John Busse of URS, saying they intend to sample wells MW-1, MW-5, MW-6, MW-8, MW-9, MW-11, MW-16, MW-17, and MW-19, and that groundwater samples will be analyzed for VOCs only. I wrote back email saying list of wells is fine, and reminding them to gauge wells for depth to water/product, determine up-to-date groundwater flow direction and identify presence of free product. - J. Kolleeny 10/27/06 Spill case transferred from S. Kraszewski to J. Maisonave. - JAM 6/21/07 Reviewed Letter submitted by URS dated June 19, 2007. On July 26, 2007, URS gauged site wells and detected free product in well MW-17. A product recovery pump operated on the site, however, since no product was detected in over a year, URS requested to shut the system down. URS requested info from DSNY concerning the oil/water separator system, which appeared to be the source of product in MW-17. DSNY notified URS that all tank systems tested tight. To elimate the possibility that surface runoff was entering the well, URS inspected the well and verified well covers were tight. URS initiated monthy vac truck visits to remove product from MW-17 in Jan. 2007 and at the time measured 7 feet of product. On April 30, 2007 URS sampled the product from the well and from the oil/water separator and determined that it is the same product. URS requested that DSNY inspect the entire oil/water separator system as well as other potential sources such as floor drains, etc. URS will continue monthly vac truck visits. Letter is uploaded to edocs. - JAM 2/28/08 Site Update: Reviewed Product Recovery Reports dated October 18, 2007 and January 24, 2008 submitted by URS. URS has been conducting monthly vac truck visits to

BRONX EAST 03A DOS -DDC (Continued) **S104952537**

address free product observed in MW-17. The level of free product seems to fluctuate with the groundwater levels and free product thickness has been as high as 7 feet and as little as 0.95 feet. URS has analyzed samples from product in the oil/water separator and product in well MW-17. They concluded the product is the same. Tightness tests have been conducted on all the tanks including the oil/water separator and they passed. URS believes there is an active source of the product in well MW-17 and since the tanks and associated lines tested tight, it may be from the floor drains. They have tried to contact DSNY to investigate the source of the free product but have had no response from DSNY. I spoke to Jane Staten at URS. She said there is a new contact at DSNY, Mike Murphy, and she will try and get more information on the oil/water separator. She said they are visiting the site tomorrow for the monthly vac truck visit and they will be gauging all the wells for product. I requested that groundwater samples be collected and analyzed for VOCs and SVOCs from wells MW-03, MW-05, MW-06, MW-08, MW-11, and MW-19 if free product is not present. She agreed and said that they may have to wait until the March 08 visit to sample. I expect a report in March 08. - JAM 5/30/08 Reviewed Free Product Recovery and Quarterly Groundwater Sampling Report for period Jan through Mar 2008. On March 27, 2008 the free product recovery skimmer pumps were removed from MW-03, MW-05, and MW-06. Product recovery was conducted in Feb and Mar 2008. Product was observed then removed from wells MW-01, MW-09 and MW-17 in Feb and MW-01, MW-05, MW-09 and MW-17 in March. As a result wells MW-01, MW-05 and MW-09 will be added to the monthly product recovery program. On Mar 19, 2008, URS sampled wells MW-03, MW-04, MW-07, MW-08, MW-11 and MW-19 and analyzed for VOCs and SVOCs. Well MW-05 was not sampled because free product was observed and MW-06 was not sampled because of an obstruction from the skimmer pump. No VOCs or SVOCs were detected in wells MW-04, MW-07, MW-11, and MW-19. Minor VOC exceedences were detected in MW-03 and MW-08 with total VOC concentrations of 16ppb and 88ppb, respectively. Naphthalene was also in exceedence in MW-08. URS concludes that free product levels in MW-17 are decreasing, however wells MW-01, MW-05 and MW-09 are impacted and will be added to the IRM program. Groundwater results show minor dissolved phase contamination and conclude that free product is not significantly impacting GW. Free product recovery will continue and the product source is still being investigated. The report is uploaded to edocs. - JAM 8/15/08 Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period April through June 2008. Monitoring wells MW-01, MW-05, MW-06, MW-09 and MW-17 are included in the monthly IRM program due to the presence of free product. Groundwater analytical results indicate minor dissolved phase contamination in two wells. Based on fingerprint analysis, the free product in well MW-17 is closely related to hydraulic oil and product in the well and oil water/separator are the same. DASNY performed a tightness test on all tanks including the oil/water separator, and all systems tested tight. No conclusion as to how the product reached the well. URS will continue monthly IRM program and quarterly groundwater sampling. The report is uploaded to eDocs. - JAM. 12/11/08 Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period July through October 2008. Since the product recovery program was initiated, minor amounts of free product was observed in wells MW-01, MW-02, MW-05, MW-06, MW-09 and MW-17. Product thickness in well MW-17 has reduced and was last measured at 0.25 feet in October, 2008.

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Groundwater analytical results indicate minor dissolved phase VOC contamination in wells MW-08 and MW-11, with Total VOC concentrations of 83ppb and 3ppb, respectively. URS will continue monthly product recovery and quarterly groundwater sampling. The report is uploaded to eDocs. - JAM. 9/17/09 Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period November 2008 through January 2009 dated February 19, 2009. URS detected product in each of the wells monitored except for MW-10. Product thicknesses ranged from 0.01ft to 0,04ft, which is less than 1 inch in every well with one exception: 0.11ft was recorded in Nov 2008 in well MW-2. A vacuum truck was used to evacuate 0.25 gallons of product from each well. No dissolved phase contamination was detected during this monitoring event. Report uploaded to eDocs. Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period February through April 2009 dated May 27, 2009. URS detected product in the following seven wells: MW-01, MW-02, MW-03, MW-05, MW-06, MW-09, and MW-17. Product thickness in most wells was either 0.01 ft of 0.02 ft. Well MW-17 exhibited the greatest amount of product, with 0.03 ft, 0.04 ft and 0.05 ft (all less than 1 inch) between Feb and Apr. A vacuum truck was used to evacuate 0.25 gallons of product from each well. No VOCs or SVOCs exceeded criteria in six of secen groundwater samples: the exception was benzene detected a 3ppb in well MW-11. Report uploaded to eDocs. Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period May through July 2009 dated August 21, 2009. URS detected minor amounts of product, 0.01 ft (1/10-inch) in wells MW-01, MW-03, MW-05, MW-06 and MW-09. Well MW-17 contained 0.04 ft (1/2-inch) and MW-02 contained 0.01 ft, 0.22 ft and 0.72 feet in May, June and July, respectively. The reason for the increase is unknown. The vacuum truck was unavailable for the June monitoring event. In May and July, URS removed approx 0.25 gallons of product from each well. To date 63 gallons of product have been recovered from the site. On July 30, 2009, URS collected groundwater samples and wells MW-08 and MW-11 showed minor exceedences for Benzene at 4ppb and 2 ppb, respectively. URS states, In July, there was an unexpected increase in product thickness in well MW-02. Future measurements will determine whether this represents a temporary issue or a new problem that requires special attention. URS will continue monthly product recovery and quarterly groundwater sampling. The report is uploaded to eDocs. - JAM. 1/6/10 Reviewed Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period August through October 2009 dated November 24, 2009. URS detected product in wells MW-01, MW-02, MW-03, MW-05, MW-06 and MW-09 and MW-17. Product thickness in well MW-17 increased to 0.22 ft in October 2009. Product thickness in well MW-02 decreased from a high of 0.72ft in July 2009 to 0.06ft in October 2009. URS removed approx 0.25 gallons of product from each well. To date 67 gallons of product have been recovered from the site. On October 21, 2009, URS collected groundwater samples and the only exceedence was in well MW-11 with a Benzene concentration at 6ppb. URS will continue monthly product recovery and quarterly groundwater sampling. This report is uploaded to eDocs. - JAM 03/08/2010: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period November 2009 through January 2010 dated February 17, 2010. Reviewed the report. URS detected product in 7 wells MW-01, MW-02, MW-03, MW-05, MW-06, MW-09 and MW-17. Product thickness ranged from 0.01' to 0.46' in well MW-17. URS removed approx 0.25 gallons of product from each well. To date 71

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gallons of product have been recovered from the site. On October 21, 2009, URS collected groundwater samples o January 25, 2010 and no exceedences were detected in any of the sampled wells (MW-04, MW-7, MW-11, MW-18 and MW-19). URS will continue monthly product recovery and quarterly groundwater sampling. This report is uploaded to eDocs. - JAM 08/31/2010: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period May through July 2010 dated August 31, 2010. Reviewed the report. Between May and July 2010, URS detected product in MW-01, MW-02, MW-05, MW-06, MW-09, and MW-17. The greatest amount of product was detected in well MW-17 with 0.25 feet in June and 0.42 feet in July. A significant quantity of product was also measured in MW-09 with 0.06 feet in May, 0.10 feet in June, and 0.18 feet in July. Measurements at the remaining locations were all 0.02 feet or below. URS evacuated approximately 3.5 gallons of free product from the six wells that exhibited product. To date, approximately 77 gallons of free product have been recovered from the site. On August 3, 2010, URS collected groundwater samples from monitoring wells MW-04, MW-07, MW-08, MW-10 and MW-18. Monitoring wells MW-11 and MW-19 were not sampled because no compounds were detected in these wells for two quarters or more. The analytical results showed only one detection (benzene at 2.2 ppb in MW-08) above NYSGQS. This report is uploaded to eDocs. - JAM 10/25/10 In the quarterly status update meeting with DDC and URS on 10/19/10, DEC requested that wells MW-3, MW-5, and MW-6 be added to the quarterly sampling schedule. - JAM 11/05/2010: This spill case was transferred to A. Doronova. - AD 02/14/2011: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period August through November 2010 dated February 14, 2011. Reviewed the report. Between August and November 2010, URS detected product in MW-01, MW-02, MW-06, MW-09, and MW-17. The greatest amount of product was detected in well MW-17 with 0.29 feet in August, 0.69 feet in September, 0.36 feet in October, and 0.40 feet in November. A significant quantity of product was also measured in MW-02 and MW-09 with thicknesses ranging from 0.05 to 0.24 feet. Measurements at the remaining locations were all 0.01 feet or less. Between August and November, URS evacuated approximately 4.75 gallons of free product from all wells that exhibited product, except for MW-06 (which contained only 0.01 feet). To date, approximately 81.75 gallons of free product have been recovered from the site. On November 15, 2010, URS collected groundwater samples from monitoring wells MW-03, MW-04, MW-05, MW-07, MW-08, MW-10 and MW-18. MW-06 was not sampled due to the presence of product. Monitoring wells MW-11 and MW-19 were not sampled because no compounds were detected in these wells for two quarters or more. The analytical results showed TVOCs detections above New York State Groundwater Quality Standards in MW-03 (45ppb), MW-05 (6ppb) and MW-08 (68ppb). Detections above standards in MW-05 were PAHs only. URS will continue the monthly product recovery visits and the quarterly groundwater monitoring. AD 06/28/2011: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period December 2010 through February 2011 dated June 28, 2011. 08/29/2011: Reviewed the report. It states that currently, URS personnel visit the site each month to measure groundwater levels and estimate free product thickness in up to 13 monitoring wells: MW-01 through MW-11, MW-17, and MW-18. All wells are checked for product and groundwater levels are measured at least quarterly. During this quarterly monitoring period, URS personnel visited the site on December 22, 2010, January 24, 2011, and February 24, 2011. URS

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detected product in monitoring wells MW-01, MW-06, MW-09, and MW-17. The greatest amount of product was detected in well MW-17 with 0.35 feet in December, 0.40 feet in January and 0.45 feet in February. Measurements at the remaining locations were all 0.05 feet or less. During this monitoring period, URS evacuated approximately 2.5 gallons of free product from the four wells that exhibited product using a vacuum truck. To date, approximately 84.25 gallons of free product have been recovered from the site. The most recent sampling event was conducted on February 10, 2011. URS collected groundwater samples from monitoring wells MW-03, MW-04, MW-05, MW-07, MW-08, MW-10 and MW-18. MW-06 was not sampled due to the presence of product. Monitoring wells MW-11 and MW-19 were not sampled because no compounds were detected in these wells for two quarters or more. Well MW-16 was destroyed and therefore cannot be sampled. The analytical results showed one detection above NYS GQS (1,2,4-trimethylbenzene) in MW-03. The total VOCs in well MW-03 was only 30 ppb. All compounds in all other wells sampled were below the NYSDEC GQSC. Based on data collected in February 2011, the free product plume at the site extended to three monitoring wells. Product measurements during this quarter were comparable to the previous quarter, although measurements in MW-06 were slightly higher and measurements in MW-09 and MW-17 were lower. It is significant to note that no product was detected in well MW-02 during this monitoring period, marking a potential trend of no product detected west of the oil/water separator. The data shows that no product has been detected and that no compounds were detected above the NYSDEC Groundwater Criteria for two quarters or more in the following wells: MW-04, MW-07, MW-10 and MW-18. Based on this data, URS requesting that these wells be removed from the quarterly sampling schedule with the exception of well MW-07, which is a downgradient well. These wells will be removed from the quarterly sampling schedule upon approval by the NYSDEC. Other than continued product removal, no additional remediation action is warranted at the site at this time. URS will continue the monthly product recovery visits and the quarterly groundwater monitoring. AD 10/11/2011: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period March 2011 through May 2011 dated October 11, 2011. DL the report to eDocs. Will review. AD 11/30/2011: Reviewed the report. It states that the most recent sampling event was conducted on May 31, 2011. Monitoring wells included in the quarterly groundwater sampling are: MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, MW-10 and MW-18. MW-17 is not part of the sampling program because it consistently contains product. Samples were not collected from MW-06 due to the presence of product and from well MW-05 because a heavy sheen was observed in this well. The analytical results showed that VOCs from MW-04, MW-07, MW-10, and MW-18 were all below the standards. The highest total VOCs from these wells was negligible (0.19 parts per billion (ppb)). Monitoring wells MW-03 and MW-08 each had only one VOC slightly above their respective criterion. The total VOC concentrations in these two wells were 21 and 13 ppb, respectively. SVOCs in all monitoring wells were below the criteria, with only a few trace detections of naphthalene. In summary, dissolved phase VOCs in groundwater are very low and do not warrant remediation. Based on data collected through May 2011, the free product plume appears to be decreasing since no product has been detected at MW-01 or MW-02 for several months; the plume recently has been limited to three monitoring wells: MW-06, MW-09, and MW-17. Product measurements during this quarter were comparable to the

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previous quarter. No product has been detected in well MW-02, indicating a potential trend of no product detected west of the oil/water separator. Other than continued product removal, no additional remediation action is warranted at the site at this time. URS will continue the monthly product recovery visits and the quarterly groundwater monitoring. AD 01/03/2012: Received Monthly Free Product Recovery and Quarterly Groundwater Sampling Report for period June 2011 through August 2011 dated January 3, 2012. DL the report to eDocs. Will review. AD 02/23/2012: Reviewed the report. It states that monitoring wells currently checked on a monthly basis include 7 wells: MW-01, MW-02, MW-03, MW-05, MW-06, MW-09, and MW-17. 5 wells: MW-04, MW-07, MW-08, MW-10, and MW-18 typically do not contain product and are only monitored on a quarterly basis. During this quarterly monitoring period, URS visited the site 4 times: on June 21, July 22, August 10 and August 25, 2011. During this quarter, URS detected measureable product in 6 monitoring wells MW-01, MW-02, MW- 05, MW-06, MW-09, and MW-17. Product was found at more locations during this quarter than previous quarters (i.e., MW-01, MW-02, and MW-05); however, detections at these locations were all less than 0.02 feet. The greatest amount of product was detected in well MW-17 with 0.34 feet in June, 0.13 feet in July, and 0.17 feet in August. Product measurements at the other five wells were all 0.07 feet or less. During this monitoring period, URS evacuated approximately 4 gallons of free product, using a vacuum truck, from the six wells that exhibited product. To date, approximately 90.5 gallons of free product have been recovered from the site. URS states that the product detections at MW-01, MW-02, and MW-05 during this quarter most likely are only temporary fluctuations as the plume continues to decrease in extent and thickness. The most recent sampling event was conducted on August 1, 2011. All wells in the program were sampled except for wells MW-05 and MW-06; these wells could not be sampled due to the presence of product in the wells. Depth to groundwater at the site ranges from less than 1' bgs to approximately 6' bgs. The estimated groundwater flow direction ranges from east to south-southeast. The analytical results showed that no VOCs or SVOCs were detected in well MW-07, and only one VOC was detected above criteria in wells MW-03 and MW-08. The TVOCs in well MW-03 was 19ppb and in well MW-08 the TVOCs were 35 ppb. SVOCs in all monitoring wells were below the criteria, with only a few trace detections of naphthalene. In summary, dissolved phase VOCs in groundwater are very low and do not warrant remediation. URS is requesting that the SVOCs be removed from the groundwater analytical program for this site. Based on data collected through August 2011, URS concludes that the free product plume appears to be decreasing in size and thickness, although recently there have been some trace product detections at two outlying wells. Groundwater contaminant concentrations remain low in all monitoring wells sampled. Based on a lack of detections in the analytical samples, URS requests that the SVOCs be removed from the analytical program. Other than continued product removal, no additional remediation action is warranted at this time. URS will continue the monthly product recovery visits and the quarterly groundwater monitoring. To issue an approval. AD 03/20/2012: Sent an e-mail to A. Samani approving removal of SVOCs from analytical program. AD 05/16/2012: Received Quarterly Groundwater Sampling Reports for 4th quarter 2011 and 1st quarter 2012. DL the reports to eDocs. Will review. AD 06/08/2012: Reviewed the 4th quarter 2011 and 1st quarter 2012 report. It states that monitoring wells currently

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included in the quarterly groundwater sampling are: MW-03, MW-05, MW-06, MW-07, and MW-08. In the period from September 2011 through January 2012, URS personnel visited the site for either product collection or groundwater sampling on five occasions. Over these events, product was detected in a total of six monitoring wells: MW-01, MW-02, MW-05, MW-06, MW-09, and MW-17. Except for MW-17, the detected product thickness in the monitoring wells was 0.05 feet or less for all monitoring events in this period. The detected product in MW-17 ranged in thickness from 0.02 feet to 0.57 feet. Overall, product thickness measurements were similar to those from previous site visits. According to the historic data, product thickness have fluctuated over the past three years, especially in well MW-17. As for wells MW-02, MW-06 and MW-09, product thickness levels have historically fluctuated but remain low. During the period from September 2011 through January 2012, URS used a vacuum truck to collect an estimated 4.5 gallons of free product from the six monitoring wells that exhibited product. To date, an estimated 94.5 gallons of free product have been recovered from the site. The product detections measured at MW-01 and MW-02 during the last several sampling events are most likely only temporary fluctuations as the plume continues to decrease in extent and thickness. If significant product is observed or recovered in the quarterly events, URS will increase the frequency of the product collection events to monthly. All wells in the sampling program were sampled during the fourth quarter 2011 on October 31, 2011 and first quarter 2012 on January 30, 2012 sampling events except for wells MW-05 and MW-06, due to the presence of product. Depth to groundwater at the site ranges from less than 1 foot bgs to approximately 6 feet bgs. Previous investigations at the site indicate a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to south-southeast. The analytical results from the latest sampling event on January 30, 2012 showed that no VOCs or SVOCs were detected in wells MW-07 or MW-08, and only one VOC (1,2,4-trimethylbenzene) was detected above criteria in well MW-03. The total VOCs in well MW-03 was only 14 ppb. Based on data collected through February 2012, URS concludes that the free product plume appears to be decreasing in size and thickness. Due to the small quantities of product being recovered, URS has reduced the frequency of product collection to quarterly. If significant product is observed or recovered in the quarterly events, URS will increase the frequency of the events to monthly. Groundwater contaminant concentrations remain low in all monitoring wells sampled. URS will continue the quarterly groundwater sampling program. Other than continued product removal, no additional remediation action is warranted at this time. AD 10/02/2012: Received Quarterly Groundwater Sampling Reports for 2nd quarter 2012. DL the report to eDocs. Will review. AD 11/09/2012: Reviewed the 2nd ans 3rd quarters 2012 report. It states that in the period from February through July 2012, URS personnel visited the site for either product collection or groundwater sampling on four occasions. Over these events, product was detected in a total of six monitoring wells: MW-01, MW-02, MW-05, MW-06, MW-09, and MW-17. The maximum product thickness detected during this period at monitoring well MW-06 was 0.59 feet and at well MW-17 it was 0.14 feet. The detected product thickness in the remaining monitoring wells was 0.04 feet or less for all monitoring events in this period. Overall, product thickness measurements were similar to those from previous site visits. During

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the period from February through July 2012, URS used a vacuum truck to collect an estimated 2.5 gallons of free product from the five monitoring wells that exhibited product. To date, an estimated 97 gallons of free product have been recovered from the site. URS states that the product detections measured at most monitoring wells are relatively minor as the plume continues to decrease in extent and thickness. URS will continue to collect the product via vacuum truck on a quarterly basis. However, if significant product is observed or recovered in future events, URS will increase the frequency of the product collection events to monthly. Only monitoring wells MW-03, MW-07, and MW-08 were sampled during the second quarter sampling event on April 16, 2012; wells MW-05 and MW-06 were not sampled due to the presence of product. The same three wells were also sampled for the third quarter sampling event on July 31, 2012 since wells MW-05 and MW-06 again contained product for the third quarter sampling event. Depth to groundwater at the site ranges from less than 1' bgs to approximately 6' bgs. The estimated groundwater flow direction ranges from east to southeast. The analytical results from the latest sampling event on July 31, 2012 showed no detection of any VOCs in any of the three monitoring wells sampled. Results from the previous sampling event in April were similar with only 5.6 ppb TVOCs detected in MW-03 and no VOCs detected in the other two wells. URS concludes that dissolved phase contamination in groundwater is very low and does not warrant remediation. Based on data collected through July 2012, URS states that the free product plume appears to be decreasing in size and thickness. Due to the small quantities of product being recovered, URS conducts product collection on a quarterly basis. If significant product is observed or recovered in future quarterly events, URS will increase the frequency of the events to monthly. Groundwater contaminant concentrations remain low or non-existent in all monitoring wells sampled. URS will continue the quarterly groundwater sampling program. Other than continued product removal, no additional remediation action is warranted at this time. AD 04/05/2013: Received 4th Quarter 2012 and 1st Quarter 2013 Monitoring Report for the site. DL to eDocs. Will review. AD 05/23/2013: Reviewed the report. It states that in the period from August 2012 through January 2013, URS personnel visited the site for either product collection or groundwater sampling on four occasions. Over these four events, product was detected in six monitoring wells: MW-01, MW-02, MW-05, MW-06, MW-09, and MW-17. The maximum product thickness detected during this period was 0.71 feet at monitoring well MW-09. The product thickness measured in the other wells was much lower, ranging from 0.01 feet to 0.2 feet. The affected wells and product thickness measurements over this period were similar to those from previous site visits with the exception of the 0.71 feet detected at well MW-09 in January 2013. During the six month period from August 2012 through January 2013, URS collected an estimated total of 3.75 gallons of product using a vacuum truck. To date, an estimated 100.75 gallons of free product have been recovered from the site. The report states that the product detections measured at most monitoring wells are relatively minor as the plume continues to decrease in extent and thickness. URS will continue to collect the product via vacuum truck on a quarterly basis. However, if significant product is observed or recovered in future events, URS will increase the frequency of the product collection events to monthly. Groundwater sampling: Monitoring wells MW-03, MW-06, MW-07, and MW-08 were all sampled during the both the fourth quarter

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sampling event on October 10, 2012, and the first quarter 2013 sampling event on January 7, 2013. Monitoring well MW-05 was not sampled during either event due to the presence of product. The analytical results from the latest sampling event on January 7, 2013 showed no exceedances of the NYSDEC Groundwater quality criteria in the samples from wells MW-03, MW-07, and MW-08. The highest TVOCs was in well MW-06 at 7,877 ppb which is a huge increase from previous October 2012 sampling. GW data (ppb): October 2012 January 2013 1. MW-3 ND ND 2. MW-6 64 7877 3. MW-7 ND ND 4. MW-8 2.7 ND Conclusions: URS concludes that based on data collected through January 2013, the free product plume continues to decrease in size and thickness, although there are fluctuations and occasional events such as in January 2013 where the product thickness increases. Due to the small quantities of product being recovered, URS will continue to collect product on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained, URS will increase the frequency of the collection events to monthly. URS will continue the quarterly groundwater sampling and monitoring program. Other than continued product removal, no additional remediation action is warranted at this time. If future sampling events verify that the elevated total VOCs in well MW-06 as indicated by the January 2013 sampling event are valid, URS will evaluate implementation of further remedial actions. AD 10/01/2013: Received 2nd Quarter 2013 Monitoring Report for the site. DL to eDocs. Will review. AD 11/12/2013: Reviewed the report. It states that during the reported period from February through August 2013, URS personnel visited the site for either product collection or groundwater sampling in April, July, and August of 2013. Product recovery: During these three events, product was detected in five wells: MW-01, MW-02, MW-05, MW-09, and MW-17. The maximum product thickness detected during this period was 0.43 feet at monitoring well MW-09. The maximum product thickness measured in the other four wells ranged from 0.03 feet to 0.34 feet. Product thickness measurements have fluctuated over the past several years, especially in well MW-17. As for wells MW-02, MW-06 and MW-09, product thickness levels have historically fluctuated but remain low, with the exception of the unusually high product thickness measurement in MW-09 during the January 2013 event; the product level in this well has decreased considerably in the last two events. Product has not been detected at well MW-06 since September 2012. During the six month period from February through August 2013, URS collected an estimated total of 4 gallons of product using a vacuum truck. To date, an estimated 104.75 gallons of free product have been recovered from the site. Both the quantity of the product recovered and the number of wells affected have decreased since 2009. As noted above, the product detections measured at most monitoring wells are relatively minor as the plume continues to decrease in extent and thickness. URS will continue to collect the product via vacuum truck on a quarterly basis. However, if significant product is observed or recovered in future events, URS will increase the frequency of the product collection events. Groundwater sampling: Depth to groundwater at the site typically ranges from less than 1 foot below ground surface (bgs) to approximately 6 feet bgs, although the depth to water occasionally is as deep as 8 feet bgs in some locations. Previous investigations at the site indicate the subsurface conditions comprise a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated

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groundwater flow direction ranges from east to southeast. Monitoring wells currently included in the quarterly groundwater sampling are: MW-03, MW-05, MW-06, MW-07, and MW-08. For the second quarter monitoring event on April 16, 2013, URS sampled all wells in the program except for MW-05, which was found to contain product. For the third quarter event on August 20, 2013, URS sampled all wells except for MW-05 because it contained product and MW-03 because the area was submerged with surface water. The analytical results from the second and third quarter sampling events showed no detections of any VOCs or naphthalene in wells MW-07 and MW-08. Well MW-03 was only sampled in the second quarter and had a total VOC concentration of 40 parts per billion (ppb) with only methyl tert-butyl ether (MTBE) detected above its criterion. During the first quarter 2013 sampling event, the total VOC concentration in the sample collected from monitoring well MW-06 was 7,877 ppb. According to URS, this elevated concentration was unexpected considering that the highest concentration of total VOCs detected in this well previously was 197 ppb in April 1999. Based on the results from the second and third quarter 2013, it appears that the elevated result from the first quarter 2013 sampling event was an anomaly. URS will continue to monitor the groundwater conditions at this well and evaluate any additional fluctuations in VOC concentrations that may occur. Dissolved-phase groundwater impacts at this site have historically been too low to warrant remediation, but if elevated groundwater concentrations persist in well MW-06 or are found at other monitoring wells, remediation will be evaluated and implemented. GW data (ppb): January 2013 April 2013 August 2013 1. MW-3 ND 40 NS 2. MW-6 7877 71 29 3. MW-7 ND ND ND 4. MW-8 ND ND ND Based on data collected through August 2013, the URS states that the free product plume continues to decrease in size and thickness, although there are fluctuations and occasional events where the product thickness increases. Dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: " URS will continue the quarterly groundwater monitoring program. " URS will continue to collect product on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained or increasing, URS will increase the frequency of the collection events. " No additional remedial actions are warranted at this time. URS will continue to monitor free product and dissolved phase impacts and evaluate implementation of further remedial actions if warranted. There are no proposals requiring DEC approvals. AD 05/05/2014: Received 4th Quarter 2013 and 1st Quarter 2014 Monitoring Report for the site. Will review. AD 06/18/2014: Reviewed the report. It states that for the fourth quarter 2013 monitoring event on November 6, URS only sampled wells MW-06, MW-07, and MW-08 since the remaining wells contained product at the time of the sampling. For the first quarter 2014 sampling event on March 26, 2014, all wells in the program were sampled except for well MW-03 which was found to be damaged and could not be opened. URS additionally collected samples from wells MW-02 and MW-09 during this event to verify that there was still no dissolved phase contamination at these locations. These wells were last sampled in 2006 and 2005, respectively, and typically contained product. GW data (ppb): March 2014 November 2013 1. MW-2 ND NS 2. MW-5 3.6 NS 3. MW-6 28 24 4. MW-7 ND ND 8. MW-8 6 12 9. MW-9 ND NS The analytical results from the most recent sampling event in

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March 2014 showed no detections of any VOCs or naphthalene in wells MW-02, MW-07, and MW-09, and only 4 parts per billion (ppb) total VOCs in well MW-05. Wells MW-06 and MW-08 both exceeded only the NYSDEC Groundwater Quality Criteria for benzene. The total VOC concentrations in these two wells were very low at only 28 ppb and 6 ppb, respectively. The highest total VOC concentration of any monitoring well over the past year was 71 ppb at well MW-06. Dissolved-phase groundwater impacts at this site have historically been too low to warrant remediation. However, there are still a few wells that have not been sampled recently due to product. If elevated groundwater concentrations are found in any of the monitoring wells, remediation of the dissolved phase will be evaluated and implemented, if warranted. Conclusions: Based on data collected through March 2014, URS states that free product plume at this site continues to decrease in size and thickness. Over the last quarter, product was detected in only two wells, and has decreased to the point where product can be collected with petroleum absorbent socks instead of a vacuum truck. Dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. DSNY has indicated to URS that the oil/water separator was being replaced in 2014. The separator was considered a potential source of free product and replacement may result in improvements in free product detections in the future. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: - URS will continue the quarterly groundwater monitoring program. - URS will monitor product at a minimum on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained or increasing, URS will increase the frequency of the collection events. No additional remedial actions are warranted at this time. URS will continue to monitor free product and dissolved phase impacts and evaluate implementation of further remedial actions, if warranted. There sre no proposals requiring DEC approval at this time. AD 09/15/2014: Received 2nd Quarter 2014 Monitoring Report for the site. Will review. AD 10/21/2014: Reviewed the report. It states that monitoring wells checked during the second quarter product recovery event on April 21, 2014 were: MW-01, MW-02, MW-05, MW-06, MW-09, and MW-17. Other wells at the site usually do not contain product and are typically only monitored during the quarterly groundwater sampling event which is conducted separately from the product recovery events. During the second quarter sampling event on June 13, 2014, wells MW-01, MW-02, MW-05 through MW-09, and MW?17 were monitored for product. During the second quarter 2014, product or a product sheen was detected in 4 wells: MW-01, MW-05, MW-09, and MW-17. The maximum product thickness detected during this period was 0.02 feet at monitoring well MW-09. Product thickness have fluctuated over the past several years, especially in well MW-17. However, all of the wells have been on a downward trend for the past year, and have been significantly lower in 2014. To the date, an estimated 119.75 gallons of free product have been recovered from the site. Both the quantity of product recovered and the number of wells affected have decreased since 2009. The product detections measured at most monitoring wells are relatively minor as the plume continues to decrease in extent and thickness. URS will continue to evaluate the most effective method for product collection based on the product observations and the quantity of affected wells in the upcoming year. GW sampling: Depth

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to groundwater at the site typically ranges from less than 1 foot below ground surface (bgs) to approximately 6 feet bgs, although the depth to water occasionally is as deep as 8 feet bgs in some locations. Previous investigations at the site indicate the subsurface conditions are comprised of a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to southeast. URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-03, MW-05, MW-06, MW-07, and MW-08. For the second quarter 2014 monitoring event on June 13, 2014, URS sampled 4 wells: MW-02, MW-06, MW-07, and MW-08. Well MW-03 was not sampled because it is damaged and could not be opened; well MW-05 was not sampled because there was a heavy sheen of product. Well MW-02 is an additional well that was sampled during this event to verify that there was still no dissolved phase contamination at this location. The analytical results from the most recent sampling event in June 2014 showed slight exceedances only for benzene in wells MW-06 and MW-08. The total VOCs in these two wells were very low at only 2.5 ppb and 3.2 ppb, respectively. There were no exceedances of the NYSDEC Groundwater Quality Criteria in the remaining wells MW-02 and MW-07. Conclusions: Based on data collected through June 2014, the free product plume at this site continues to decrease in size and thickness. Over the last quarter, minor quantities of product were detected in only four wells; product has decreased to the point where it can be collected with petroleum absorbent socks instead of a vacuum truck. Dissolved?phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. DSNY replaced the piping between the oil/water separator and the oil/water separator overflow UST in 2014; based on recent monitoring data, it appears that the new piping has addressed the source of free product at the site. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: - URS will continue the quarterly groundwater monitoring program. Once the free product at the site has been addressed, URS will collect groundwater samples from all monitoring wells in the monitoring program. - URS will collect product from affected wells at a minimum on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained or increasing, URS will increase the frequency of the collection events. - No additional remedial actions are warranted at this time. URS will continue to monitor free product and dissolved phase impacts and evaluate implementation of additional remedial actions, if warranted. There are no proposals which require DEC's approval at this time. AD 03/03/2015: Received a Groundwater MOnitoring Report for the 3rd and 4th quarters of 2014. Will review. AD 04/06/2015: Reviewed the report. It states that Free product recovery: During the third and fourth quarter 2015, product or a product sheen was detected in monitoring wells MW-01, MW-05, MW-09, and MW-17. The maximum product thickness detected during this period was 0.06 feet at monitoring wells MW-09 and MW-17. Product absorbent socks have been utilized for product collection from wells MW-09 and MW-17 since September 2014. Because there are socks installed in the wells, no product is detected in the well with the oil/water interface probe. However, it is assumed that product is still present and being collected by the socks. During the latest monitoring event

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in November, the socks were reported as 5% and 50% saturated in wells MW-09 and MW-17, respectively. A total of four product collection and groundwater sampling events were conducted during the third and fourth quarters of 2014. A total of eight monitoring wells were monitored for product during these events. Product thickness measurements have fluctuated over the past several years, especially in well MW-17. However, according to URS, all of the wells have been on a downward trend for the past year, and have been significantly lower in 2014. To date, an estimated 120.5 gallons of free product have been recovered from the site. URS will continue to evaluate the most effective method for product collection based on the product observations and the quantity of affected wells in the upcoming year. Groundwater Sampling Results: URS collects GW samples on a quarterly basis to monitor the dissolved phase of groundwater plume. Monitoring wells currently included in the quarterly GW sampling program are: MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. URS collected the third quarter samples on September 16, 2014 and the fourth quarter on November 10, 2014. Well MW-03 was not sampled because it was damaged and cannot be opened; well MW-05 was not sampled because there was a heavy sheen of product during both events. Well MW-01 was sampled during the fourth quarter only. This well has not been sampled since 2005 since it typically contains product. The analytical results from the most recent sampling event in November 2014 showed that the highest TVOCs was in MW-01 with 430 ppb of total VOCs, all of which was toluene. Well MW-06 contained only a slight exceedance for benzene. There were no exceedances of the NYSDEC Groundwater Quality Criteria in the remaining wells MW-02, MW-07, and MW-08. The results from the third quarter sampling were similar to the fourth quarter. Other than the recent sample at MW-01, the highest total VOC concentration of any monitoring well over the past year was 28 ppb at well MW-06. Dissolved?phase groundwater impacts at this site have historically been low and do not warrant remediation. However, if the results from MW-01 are sustained in future monitoring events, remedial actions will be implemented to address the dissolved-phase contamination in this area. There are also wells such as MW?17 which have not been sampled recently due to the presence of product. If elevated groundwater concentrations are found in any of the monitoring wells, remediation of the dissolved phase will be evaluated and implemented, if warranted. Conclusions Based on data collected through November 2014, the free product plume at this site continues to decrease in size and thickness. Over the last two quarters, minor quantities of product were detected in only four wells; product has decreased to the point where it can be collected with petroleum absorbent socks instead of a vacuum truck. Dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions with the exception of the fourth quarter sample from MW-01. Actions and Proposals: Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: - URS will continue the quarterly groundwater monitoring program. Once the free product at the site has been addressed, URS will collect groundwater samples from all monitoring wells in the monitoring program. - URS will collect product from affected wells at a minimum on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained or increasing, URS will increase the frequency of the collection events. - URS will

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monitor MW-01 for at least one additional quarter to determine whether the total VOCs at this well remains elevated and warrants further remedial actions. No additional remedial actions are warranted at this time for the remaining wells at the site. URS will continue to monitor free product and dissolved phase impacts and evaluate implementation of additional remedial actions, if warranted. No actions requiring DEC approval were proposed at this time. AD 08/14/2015: Received the following e-mail from URS: Document report.sp9810571.2015.08.14.bronx_dist_3a. 1st_and_2nd_quarter_2015_monitoring_report.pdf has been uploaded. This document is described as: Groundwater Monitoring Report for the First and Second Quarter 2015 for the Bronx District 3A Garage site. Please log in to http://ddcreports.ursbufweb.com to view the document. It can be found under the eDocs page. Thank you. Will review. AD 09/29/2015: Reviewed the report. It states that URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. URS collected the first quarter samples on February 3, 2015; wells MW-01, MW-02, and MW-05 were not sampled because they contained product. Well MW-03 is damaged and could not be opened. The second quarter samples were collected on June 3, 2015. Well MW-01 was not sampled during the second quarter event because it contained product. Wells MW-03, MW-05, and MW-06 were not sampled because they were damaged and could not be opened. Depth to groundwater at the site typically ranges from less than 1 foot below ground surface (bgs) to approximately 6 feet bgs, although the depth to water is occasionally as deep as 8 feet bgs in some locations. Previous investigations at the site indicate the subsurface conditions are comprised of a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to southeast. Analytical data: The analytical results from the most recent sampling event in June 2015 showed that no VOCs or naphthalene were detected in wells MW-02, MW-07, or MW-08. Results from the first quarter event were similar; the highest total VOC concentration was only 7.7 parts per billion (ppb) in well MW-02. URS stated that dissolved-phase groundwater impacts at this site have historically been low and do not warrant remediation. However, a sample from MW-01 in November 2014 showed a total VOC concentration of 430 ppb. Well MW-01 has not been sampled in the subsequent sampling events due to the presence of product. If the results from MW-01 are sustained in future monitoring events, remedial actions will be implemented to address the dissolved-phase contamination in this area. There are also wells such as MW-17 which have not been sampled recently due to the presence of product. If elevated groundwater concentrations are found in any of the monitoring wells, remediation of the dissolved phase will be evaluated and implemented, if warranted. Conclusions: Based on data collected through June 2015, the free product plume at this site continues to decrease in size and thickness. Over the last two quarters, minor quantities of product were detected in only five wells; product has decreased to the point where it can be collected with petroleum absorbent socks instead of a vacuum truck. Dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions with the exception of the fourth quarter 2014 sample from MW-01. Additional monitoring will be required to determine whether dissolved phase

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impacts are present at this well and other wells that have not been sampled due to the continued presence of product. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: " URS will continue the quarterly groundwater monitoring program. Once the free product at the site has been addressed, URS will collect groundwater samples from all monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. " URS will collect product from affected wells at a minimum on a quarterly basis. If significant product is observed or recovered in future quarterly events, or if the elevated product thickness appears to be sustained or increasing, URS will increase the frequency of the collection events. " URS will add monitoring well MW-01 to the list of wells included in the quarterly groundwater sampling program. " URS will repair monitoring wells MW-03, MW-05, and MW-06. Proposals/Approval Required: " None AD 12/14/2015: Received the following e-mail from URS: Document report.sp9810571.20151214.bronx_dist_3a. 3rd_quarter_2015_monitoring_rpt.pdf has been uploaded. This document is described as: Groundwater Monitoring Report for the Third Quarter 2015 for the Bronx District 3A Garage site. Please log in to http://ddcreports.ursbufweb.com to view the document. It can be found under the eDocs page. Thank you. URS Will review. AD 01/12/2016: Reviewed the report. It states that URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the third quarter of 2015 (through September). Free product: During the third quarter 2015, product or a product sheen was not detected in any monitoring wells. Product absorbent socks have been utilized for product collection from wells MW-09 and MW-17 since September 2014 and in MW-01 since June 2015. Because there are socks installed in the wells, no product is detected in the well with the oil/water interface probe. However, it is assumed that product is still present and being collected by the socks. The absorbent socks in wells MW-01 and MW-09 were each replaced once during the third quarter 2015.To date, an estimated 120.5 gallons of free product have been recovered from the site. The product detections measured at most monitoring wells are relatively minor as the plume continues to decrease in extent and thickness. Remaining product at the site is likely minor remnants that will continue to slowly decrease over time. URS will continue to evaluate the most effective method for product collection based on the product observations and the quantity of affected wells in the upcoming year. GW sampling: Monitoring wells currently included in the quarterly groundwater sampling program are: MW-01, MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. URS collected the third quarter samples on September 23, 2015. Well MW-01 was not sampled during the third quarter event because it contained a petroleum absorbent sock. Wells MW-03, MW-05, and MW-06 were not sampled because they were located within remediation vaults and could not be opened. URS repaired these wells in late October. Depth to groundwater at the site typically ranges from less than 1 foot below ground surface (bgs) to approximately 6 feet bgs, although the depth to water is occasionally as deep as 8 feet bgs in some locations. Previous investigations at the site indicate the subsurface

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conditions are comprised of a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to southeast. GW data: Dissolved-phase groundwater impacts at this site have historically been low and do not warrant remediation. However, a sample from MW-01 in November 2014 showed a total VOC concentration of 430 parts per billion (ppb). Well MW-01 has not been sampled in the subsequent sampling events due to the presence of product. If the results from MW-01 are sustained in future monitoring events, remedial actions will be implemented to address the dissolved-phase contamination in this area. In addition, some wells such as MW-17 have not been sampled recently due to the presence of product. If elevated groundwater concentrations are found in any of the monitoring wells, remediation of the dissolved phase will be evaluated and implemented, if warranted. Conclusions: Based on data collected through September 2015, URS states that: the free product plume at this site continues to decrease in size and thickness. Product has decreased to the point where it can be collected with absorbent socks instead of a vacuum truck. Socks are installed in 3 wells and no product has been detected since June 2015. Dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions with the exception of the 4th quarter 2014 sample from MW-01. Additional will be required to determine whether dissolved-phase impacts are present at this well and other wells that have not been sampled due to the continued presence of product. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: - URS will continue the quarterly groundwater monitoring program. Once the free product at the site has been addressed, URS will collect groundwater samples from all monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - URS will conduct monthly product recovery events to inspect or replace petroleum absorbent socks. If product levels increase, URS will implement alternative technologies, such as manual pumping using a peristaltic pump. Proposals/Approval Required: - None AD 03/18/2016: Received the following e-mail from K. Shanahan of URS: Hi Ainura, Attached is a table with the most recent information regarding free product and VOC/SVOC detections at the Bronx District 3A site. Also attached are two figures: Figure 3 illustrates the site plan with monitoring well locations on-site Figure 4 shows groundwater monitoring data over the past four quarters and four additional wells east and southeast of the site. Wells MW-13, MW14, MW15, MW16, MW-19 and MW-20 are either destroyed or located in a median covered with soil and could not be located. In February 2016, free product was not detected in wells MW-01 through MW-09 and MW-17. In addition, no VOCs were detected in samples collected from wells MW-02, MW-03, MW-04, MW-05, MW-06, MW-07, MW-09 and MW-17; the samples from wells MW-01 and MW-08 had VOC detections at 23 and 3 ug/L, respectively. In accordance with our telephone conversations today, we would like to sample wells MW-10, MW-11, MW-12 and MW-18 in an effort to gather sufficient data to justify a spill closure request. This of course assumes these four wells remain functional. Please send me your response to this plan at your earliest convenience. Thanks, Kevin J. Shanahan Project Manager, Environmental Business Unit, Metro New York Region D +1-716-923-1215 M +1-716-480-7352 kevin.shanahan@aecom.com Will review. AD 03/23/2016:

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Looked at the submitted documents. According to sampling data, all sampled wells were free of LNAPL and had ND VOCs. Six wells out of twenty were destroyed or could not be located. Latest data from these wells was ND for VOCs. The site conditions look favorable for spill closure. AD 03/24/2016: Sent an e-mail to K. Shanahan telling to proceed with the plan. AD 05/24/2016: Received the following e-mail from URS: Document report.sp9810571.20160524.bronx_dist_3a. 1st_and_2nd_quarter_2016_monitoring_rpt.pdf has been uploaded. This document is described as: Groundwater Monitoring Report for the First and Second Quarter of 2016 for the Bronx District 3A Garage site. Please log in to http://ddcreports.ursbufweb.com to view the document. It can be found under the eDocs page. Thank you. Will review. AD 06/21/2016: Reviewed the report. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the first and second quarters of 2016 (through May). Product recovery: Product recovery events during the first and second quarters of 2016 were conducted on January 19, February 19, March 30, April 5, and May 4. The socks were removed from all affected wells in January 2016 to determine whether product would continue to accumulate. During the following monitoring event in February, no product was detected in any of the ten monitoring wells that were checked, including the four wells (MW-01, MW-03, MW-09, and MW-17) that had contained product in the previous year. Based on these findings, and based on limited dissolved-phase contamination at the site as discussed below, URS contacted the NYSDEC in March 2016 to discuss additional monitoring and sampling data requirements prior to considering closure of this spill number. NYSDEC and URS agreed that a well inventory should be conducted. On March 30, 2016, URS completed the well inventory and checked water/product levels at a total of 15 monitoring wells, including six locations that had not been monitored for up to 10 years. During this event, product was measured in well MW-17 at a thickness of 0.01 feet so petroleum absorbent socks were reinstalled in this well. Product was also measured in wells MW-12 and MW-16 at a thickness of 0.31 feet and 0.42 feet, respectively, so petroleum absorbent socks were also installed in these wells. This was the first monitoring at well MW-12 since February 2008 and at well MW-16 since July 2006. During the next monitoring event on April 5, 2016, the petroleum absorbent socks in wells MW-12, MW-16, and MW-17 were observed to be approximately 25% saturated. Based on the low accumulation, the petroleum absorbent socks were again removed from all wells during this event to determine whether product would continue to accumulate. GW monitoring: The most recent monitoring event was conducted on May 4, 2016. During this event, product was again measured in wells MW-01 (0.02 feet), MW-12 (0.05 feet), and MW-17 (0.01 feet); petroleum absorbent socks were installed in these wells. Well MW-16 which recently contained product could not be accessed during this event because it was blocked by a disabled street sweeper. GW sampling: The site is on quarterly sampling program. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-01, MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. URS collected samples from all wells in the program during the first quarter sampling event on February 19, 2016. Samples were also collected from wells MW-04, MW-09, and MW-17 during this event. Conclusions: Based on data collected through May 2016, the free product plume at this site continues to decrease in size and thickness. Remaining product has

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decreased to the point where it is found intermittently at low levels and can be collected with petroleum absorbent socks instead of a vacuum truck. URS removed the petroleum absorbent socks from all wells most recently in April 2016 to determine whether product continues to collect in the wells. During the following event in May, small amounts of product were found at wells MW-01, MW-12, and MW-17, so the socks were reinstalled. Fifteen of the 20 monitoring wells installed at this site were analyzed during the first and second quarter 2016. Only well MW-19 has not been sampled recently. The four remaining monitoring wells are either destroyed and/or lost. The recent monitoring data continues to show that dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: - URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all site wells in the program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - If product is found at any wells during the next monitoring event(s), URS will reinstall petroleum absorbent socks at those locations. URS will conduct monthly product recovery events to inspect or replace petroleum absorbent socks as required. - As proposed below, URS will include all known monitoring wells on the list of wells to monitor and sample quarterly. Proposals/Approval Required: - In an e-mail to the NYSDEC dated March 18, 2016, URS proposed a list of wells to be sampled in advance of requesting spill closure. Table 3 presents an updated list of proposed wells and the most recent information regarding free product and dissolved phase contamination for each well. The wells that have been sampled as part of the routine monitoring are indicated with green shading. The additional wells that URS proposes to sample in advance of submitting a request for spill closure are indicated in blue shading. - URS does not intend to replace monitoring wells MW-13, MW-14, MW-15, or MW-20. These wells are all located downgradient of the site and historically had little or no dissolved phase or free product impacts. The available wells provide sufficient coverage to indicate the presence of product and dissolved phase impacts at the site. Response to this proposal was sent to URS on March 24th, 2016. AD 10/31/2016: Received a notification to upload 3rd quarter 2016 report. AD 11/18/2016: Reviewed the report. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the third quarter of 2016 (through August). Free product recovery: Product recovery events during the third quarter of 2016 were conducted on June 2, June 27, and August 5. On June 2, 2016 the petroleum absorbent socks in wells MW-01, MW-12, and MW-17 were removed to observe whether product would continue to accumulate. The sock in well MW-16 was replaced since 1.07 feet of product were measured in this well. During the next event on June 27, 2016, product was measured at a thickness of 0.001 feet in MW-01, 0.03 feet in MW-12, and 0.01 feet in MW-17 (MW-16 was not accessible). Petroleum absorbent socks were installed in wells MW-12 and MW-17 during that event. During the most recent event on August 5, 2016, product was measured with a thickness of 0.07 feet in well MW-01 and a petroleum absorbent sock was installed. The product observed at this well may be due to surface infiltration as a result of the poor condition of the well. No product was measured in wells MW-12 and MW-17, and the petroleum absorbent socks were removed. The sock in well MW-16 was

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observed to be 100% saturated and was replaced; 0.06 feet of product was measured in this well. As of August 2016, socks are installed only in wells MW-01 and MW-16. According to URS, product thickness measurements have fluctuated over the past several years, especially in well MW-17. However, product thickness measurements in all wells except MW-16 have been consistently lower since the first quarter 2014. Any remaining product at the site is likely minor remnants that will continue to slowly decrease over time. URS will continue to monitor for product on a monthly basis, periodically removing the absorbent socks to check for the presence of product. GW sampling: URS collects groundwater samples on a quarterly basis to monitor the dissolved phase groundwater plume. Monitoring wells currently included in the quarterly groundwater sampling program are: MW-01, MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08. URS collected samples from all wells in the program during the third quarter sampling event on June 27, 2016 except for well MW-01 because it contained product. A sample was also collected from well MW-09 during this event. The analytical results from the third quarter sampling event in June 2016 showed that of the wells sampled, the only well with VOCs detected was MW-06 with total a VOC concentration of only 6 ppb. The results from the most recent monitoring events are consistent with previous events showing that dissolved-phase groundwater impacts at this site are low and do not warrant remediation. Conclusions: Based on data collected through August 2016, the free product plume at this site continues to decrease in size and thickness. Remaining product has decreased to the point where it is found intermittently at low levels and can be collected with petroleum absorbent socks instead of a vacuum truck. Fifteen of the 20 monitoring wells installed at this site were analyzed during the first through third quarters of 2016. Only well MW-19 has not been sampled recently. The four remaining monitoring wells are either destroyed and/or lost. The recent monitoring data continues to show that dissolved phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. Actions and Proposals Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. URS will continue monthly product recovery events to inspect or replace petroleum absorbent socks as required. All wells shown in blue or green on Table 3 will be checked for free product at least quarterly. URS will install new steel protective casings at monitoring wells MW?01 and MW?02 to prevent surface infiltration. Proposals/Approval Required: None. AD 12/29/2016: Received the following e-mail from URS: The document Bronx District 3A - 4Q 2016 Report has been posted to the NYCDDC SharePoint site. Please click here to access the site. https://nycddc.aecomonline.net/SitePages/Home.aspx Please click here to open the file. https://nycddc.aecomonline.net/All_Reports/Bronx%20District%203A/report.sp9810571.2016-12-29.Bronx_Dist_3A.4th_Quarter_2016_Monitoring_Rpt.pdf Will review. AD 01/27/2017: Reviewed the report. This report summarizes the free product recovery efforts and groundwater monitoring data at the site for the fourth quarter of 2016 (through September). Product recovery: The most recent product recovery event was conducted on September 27, 2016.

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During this event, petroleum absorbent socks were installed in wells MW?12 and MW?17 due to the presence of product in these wells at thicknesses of 0.09 feet and 0.02 feet, respectively. The petroleum absorbent socks in wells MW?01 and MW?16 were observed to be 100% saturated with product and replaced during this event. As of September 2016, socks are installed only in wells MW?01, MW?12, MW?16, and MW?17. GW sampling: URS collected samples from all wells in the program during the fourth quarter sampling event on September 27, 2016 except for well MW?01 because it contained product. A sample was also collected from well MW?09 during this event. Depth to groundwater at the site typically ranges from 1' bgs to approximately 6' bgs, although is occasionally as deep as 8 feet bgs at some locations. The depth to groundwater at each location was relatively consistent over the past year. Previous investigations at the site indicate the subsurface conditions are comprised of a layer of fill 1 to 9 feet thick overlying silty fine sand with traces of gravel and cobbles. The estimated groundwater flow direction ranges from east to southeast. The analytical results from the sampling event in September 2016 showed that of the wells sampled, the only well with VOCs detected was MW-03 with total a VOCs of only 1 ppb. There were no exceedances of NYSDEC groundwater quality criteria. The results from the most recent monitoring events are consistent with previous events showing that dissolved-phase groundwater impacts at this site are low and do not warrant remediation. Conclusions: Based on data collected through September 2016, the free product plume at this site continues to decrease in size and thickness. Remaining product has decreased to the point where it is found intermittently at low levels and can be collected with petroleum absorbent socks instead of a vacuum truck. Sixteen of the 20 monitoring wells installed at this site were analyzed at least once during the first through fourth quarters of 2016. The four remaining monitoring wells are either destroyed and/or lost. The recent monitoring data continues to show that dissolved-phase groundwater impacts at this site remain at low concentrations and do not warrant any remedial actions. Based on the most recent groundwater monitoring and product recovery data as summarized above, URS recommends the following: Actions: - URS will continue the quarterly groundwater monitoring program, collecting groundwater samples from all monitoring wells in the monitoring program. If dissolved phase impacts are present, URS will implement remedial actions as appropriate. - URS will continue monthly product recovery events to inspect or replace petroleum absorbent socks as required. - URS will install new steel protective casings at monitoring wells MW-01 and MW-02 to prevent surface infiltration. Proposals/Approval Required: None. AD"

Remarks: "IT IS SUSPECTED THAT AN UNDERGROUND STORAGE TANK CAUSED THE CONTAMINATION. UNKNOWN AMOUNT OF SOIL CONTAMINATED. IT IS UNDER INVESTIGATION AT THIS TIME."

Material:

Site ID:	131989
Operable Unit ID:	1067795
Operable Unit:	01
Material ID:	314438
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00

BRONX EAST 03A DOS -DDC (Continued) **S104952537**

Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

I28 **DSNY BX DISTRICT 3A GARAGE** **NY AST** **U003074849**
North **1661 WEST FARMS ROAD** **N/A**
< 1/8 **BRONX, NY 10460**
0.113 mi.
596 ft. **Site 3 of 10 in cluster I**

Relative:
Higher

Actual:
23 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-455598
Program Type: PBS
UTM X: 594146.15072
UTM Y: 4520931.48554
Expiration Date: 12/06/2018
Site Type: Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)

Affiliation Records:
Site Id: 20047
Affiliation Type: Facility Operator
Company Name: DSNY BX DISTRICT 3A GARAGE
Contact Type: Not reported
Contact Name: IGNACIO LAGO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 328-9877
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2016-11-15

Site Id: 20047
Affiliation Type: Emergency Contact
Company Name: NYC DEPT OF SANITATION
Contact Type: Not reported
Contact Name: BUREAU OF CLEANING & COLLECTION
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (646) 885-5051
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

Date Last Modified: 2013-11-20

Site Id: 20047
Affiliation Type: Facility Owner
Company Name: NYC DEPT OF SANITATION
Contact Type: Not reported
Contact Name: Not reported
Address1: 125 WORTH ST - RM #823B
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10013
Country Code: 001
Phone: (646) 885-4856
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2016-11-15

Site Id: 20047
Affiliation Type: Mail Contact
Company Name: NYC DEPT OF SANITATION
Contact Type: Not reported
Contact Name: FRANK SCARPACI
Address1: 125 WORTH STREET
Address2: ROOM 823B
City: NEW YORK
State: NY
Zip Code: 10013
Country Code: 001
Phone: (646) 885-4887
EMail: FSCARPACI@DSNY.NYC.GOV
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2016-11-29

Tank Info:

Tank Number: 003
Tank Id: 36064
Material Code: 0012
Common Name of Substance: Kerosene [#1 Fuel Oil] (On-Site Consumption)

Equipment Records:

C01 - Pipe Location - Aboveground
J00 - Dispenser - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
I01 - Overfill - Float Vent Valve
K00 - Spill Prevention - None

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	12/01/1985
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	02/01/2001
Register:	True
Modified By:	NRLOMBAR
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	004
Tank Id:	36065
Material Code:	9999
Common Name of Substance:	Other

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	800
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	12/01/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	005
Tank Id:	36066
Material Code:	9999
Common Name of Substance:	Other

Equipment Records:

G00 - Tank Secondary Containment - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	006
Tank Id:	36067
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	007
Tank Id:	36068
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

Equipment Records:

G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	009
Tank Id:	47416
Material Code:	9999
Common Name of Substance:	Other

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/01/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	04/14/2017
Material Name:	Not reported

Tank Number:	011

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

Tank Id: 57804
Material Code: 9999
Common Name of Substance: Other

Equipment Records:

L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/01/1985
Capacity Gallons: 800
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 02/01/2001
Register: True
Modified By: NRLOMBAR
Last Modified: 04/14/2017
Material Name: Not reported

Tank Number: 012
Tank Id: 64379
Material Code: 0013
Common Name of Substance: Lube Oil

Equipment Records:

D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

Date Tank Closed: 01/01/2001
Register: True
Modified By: TRANSLAT
Last Modified: 04/14/2017
Material Name: Not reported

Tank Number: 013
Tank Id: 64380
Material Code: 9999
Common Name of Substance: Other

Equipment Records:
I04 - Overfill - Product Level Gauge (A/G)
J00 - Dispenser - None
G00 - Tank Secondary Containment - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
D00 - Pipe Type - No Piping

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/01/1985
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 02/01/2001
Register: True
Modified By: NRLOMBAR
Last Modified: 04/14/2017
Material Name: Not reported

Tank Number: 014
Tank Id: 231574
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
J02 - Dispenser - Suction Dispenser
F00 - Pipe External Protection - None
E00 - Piping Secondary Containment - None
G03 - Tank Secondary Containment - Vault (w/o access)
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None

DSNY BX DISTRICT 3A GARAGE (Continued) **U003074849**

B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)

Tank Location:	2
Tank Type:	Steel Tank in Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	07/31/1963
Capacity Gallons:	2000
Tightness Test Method:	21
Date Test:	04/15/2010
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	DMMOLOUG
Last Modified:	04/14/2017
Material Name:	Not reported

I29 **DSNY BX DISTRICT 3A GARAGE** **NY UST** **U004062128**
North **1661 WEST FARMS ROAD** **N/A**
< 1/8 **BRONX, NY 10460**
0.113 mi.
596 ft. **Site 4 of 10 in cluster I**

Relative:
Higher

Actual:
23 ft.

UST:

Id/Status:	2-455598 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	12/06/2018
UTM X:	594146.15072
UTM Y:	4520931.48554
Site Type:	Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)

Affiliation Records:

Site Id:	20047
Affiliation Type:	Facility Operator
Company Name:	DSNY BX DISTRICT 3A GARAGE
Contact Type:	Not reported
Contact Name:	IGNACIO LAGO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-9877
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-11-15

Site Id:	20047
Affiliation Type:	Emergency Contact
Company Name:	NYC DEPT OF SANITATION
Contact Type:	Not reported
Contact Name:	BUREAU OF CLEANING & COLLECTION
Address1:	Not reported

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 885-5051
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2013-11-20

Site Id:	20047
Affiliation Type:	Facility Owner
Company Name:	NYC DEPT OF SANITATION
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	125 WORTH ST - RM #823B
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10013
Country Code:	001
Phone:	(646) 885-4856
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-11-15

Site Id:	20047
Affiliation Type:	Mail Contact
Company Name:	NYC DEPT OF SANITATION
Contact Type:	Not reported
Contact Name:	FRANK SCARPACI
Address1:	125 WORTH STREET
Address2:	ROOM 823B
City:	NEW YORK
State:	NY
Zip Code:	10013
Country Code:	001
Phone:	(646) 885-4887
EMail:	FSCARPACI@DSNY.NYC.GOV
Fax Number:	Not reported
Modified By:	DAFRANCI
Date Last Modified:	2016-11-29

Tank Info:

Tank Number:	001
Tank ID:	36062
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	1000
Install Date:	12/01/1977
Date Tank Closed:	01/01/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None

Tank Number: 002
Tank ID: 36063
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 2000
Install Date: 12/01/1985
Date Tank Closed: 02/01/2000
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0008
Common Name of Substance: Diesel

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F01 - Pipe External Protection - Painted/Asphalt Coating
D02 - Pipe Type - Galvanized Steel
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)

Tank Number: 008
Tank ID: 36069
Tank Status: Closed - Removed
Material Name: Closed - Removed

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

Capacity Gallons:	2000
Install Date:	Not reported
Date Tank Closed:	01/01/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Number:	010
Tank ID:	57803
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1000
Install Date:	Not reported
Date Tank Closed:	02/01/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0000
Common Name of Substance:	Empty
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
F01 - Pipe External Protection - Painted/Asphalt Coating

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

Tank Number:	VRT1/1
Tank ID:	64381
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	3000
Install Date:	01/01/2000
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2710
Common Name of Substance:	Biodiesel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DMMOLOUG
Last Modified:	04/14/2017

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
E04 - Piping Secondary Containment - Double walled UG
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring

Tank Number:	VRT5/5
Tank ID:	64382
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	2500
Install Date:	01/01/2002
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0010
Common Name of Substance:	Hydraulic Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DMMOLOUG
Last Modified:	04/14/2017

Equipment Records:

E04 - Piping Secondary Containment - Double walled UG

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
C03 - Pipe Location - Aboveground/Underground Combination
G04 - Tank Secondary Containment - Double-Walled (Underground)
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
I03 - Overfill - Automatic Shut-Off
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None

Tank Number:	VRT6/6
Tank ID:	64383
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1000
Install Date:	01/01/2002
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0015
Common Name of Substance:	Motor Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DMMOLOUG
Last Modified:	04/14/2017

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
E04 - Piping Secondary Containment - Double walled UG
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	VRT7/7
Tank ID:	64384
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1000
Install Date:	01/01/2002

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DMMOLOUG
Last Modified:	04/14/2017

Equipment Records:

G04 - Tank Secondary Containment - Double-Walled (Underground)
J00 - Dispenser - None
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
E04 - Piping Secondary Containment - Double walled UG
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring

Tank Number:	VRT8/8
Tank ID:	64385
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1000
Install Date:	01/01/2002
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	DMMOLOUG
Last Modified:	04/14/2017

Equipment Records:

L00 - Piping Leak Detection - None
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
J00 - Dispenser - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)

DSNY BX DISTRICT 3A GARAGE (Continued) **U004062128**

E04 - Piping Secondary Containment - Double walled UG
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None

I30 **LOT 15,TAXBLOCK 3014** **NY LTANKS** **S106000141**
North **1560 BOONE AVENUE** **NY RES DECL** **N/A**
< 1/8 **BRONX, NY 10460**
0.114 mi.
601 ft. **Site 5 of 10 in cluster I**

Relative:
Higher

Actual:
32 ft.

LTANKS:

Site ID:	290018
Spill Number/Closed Date:	0307241 / 2005-07-19
Spill Date:	2003-10-09
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	0301
Investigator:	MXTIPPLE
Referred To:	Not reported
Reported to Dept:	2003-10-09
CID:	322
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2003-10-09
Spill Record Last Update:	2005-07-19
Spiller Name:	Not reported
Spiller Company:	PRG PACKING
Spiller Address:	1560 BOONE AVE
Spiller City,St,Zip:	BRONX, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	234824
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE 10/9/03-Sangesland spoke with Anna at PRG Packing 718-328-0059. She says several companies have been in to bid on replacing the tank, but she says there is no leak. She says the building closes at 4PM and no one can see the tank later today. The building opens at 6AM. 10/10/03 Tipple visited site//tank replacement//remediation in progress 6/16/04 tipple sent letter requesting documentation and work to continue 3/23/05 Tipple sent letter requiring gw monitoring to continue 7/19/05 Report reviewed//NFA letter sent"
Remarks:	"10,000 GAL ABOVE GROUND TANK IS LEAKING - CALLER WAS CONTACTED FOR CLEAN UP - THEY HAVE NOT BEEN HIRED YET THOUGH"

LOT 15,TAXBLOCK 3014 (Continued) **S106000141**

Material:

Site ID:	290018
Operable Unit ID:	876000
Operable Unit:	01
Material ID:	500796
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

ENV RES DECL:

Borough:	BX
Tax Block:	3014
Tax Lot:	15
Reference Number:	R-208
Date Recorded:	12/5/2011
Satisfaction Date:	Not reported
CEQR Number:	10DCP017X
Application Number:	100310 ZMX
Recording Reference Number:	2011000423714
Type:	Air
Lot Remediation Date:	Not reported
Reference Number:	R-208
Date Recorded:	12/5/2011
Satisfaction Date:	Not reported
CEQR Number:	10DCP017X
Application Number:	100310 ZMX
Recording Reference Number:	2011000423714
Type:	Hazmat
Lot Remediation Date:	Not reported
Reference Number:	R-208
Date Recorded:	12/5/2011
Satisfaction Date:	Not reported
CEQR Number:	10DCP017X
Application Number:	100310 ZMX
Recording Reference Number:	2011000423714
Type:	Noise
Lot Remediation Date:	Not reported

I31 **FERRIS STAHL MEYER PACKING** **NY AST** **A100366116**
North **1560 BOONE AVENUE** **N/A**
< 1/8 **BRONX, NY 10460**
0.114 mi.
601 ft. **Site 6 of 10 in cluster I**

Relative:
Higher

Actual:
32 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-605285
Program Type:	PBS
UTM X:	594009.84685
UTM Y:	4520826.84025
Expiration Date:	02/23/2011
Site Type:	Other

Affiliation Records:

Site Id:	27154
Affiliation Type:	Mail Contact
Company Name:	PAT SEMENTA PLUMBING AND HEATING
Contact Type:	Not reported
Contact Name:	PATRICK L. SEMENTA
Address1:	677 VAN NEST AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10462
Country Code:	001
Phone:	(718) 829-5464
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	27154
Affiliation Type:	Facility Owner
Company Name:	FERRIS STOLH MEYER PACKING
Contact Type:	PRESIDENT / OWNER
Contact Name:	ANA
Address1:	1560 BOONE AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(718) 538-6825
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2005-12-28

Site Id:	27154
Affiliation Type:	Facility Operator
Company Name:	FERRIS STAHL MEYER PACKING
Contact Type:	Not reported
Contact Name:	GUERLAMO / ANA
Address1:	Not reported
Address2:	Not reported
City:	Not reported

FERRIS STAHL MEYER PACKING (Continued) **A100366116**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 328-0059 14
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2005-12-28

Site Id:	27154
Affiliation Type:	Emergency Contact
Company Name:	FERRIS STOLH MEYER PACKING
Contact Type:	Not reported
Contact Name:	GIER;A,P
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(201) 538-6825
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	2005-12-28

Tank Info:

Tank Number:	001
Tank Id:	59676
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

C01 - Pipe Location - Aboveground
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
J02 - Dispenser - Suction Dispenser
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
I05 - Overfill - Vent Whistle

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT

FERRIS STAHL MEYER PACKING (Continued) **A100366116**

Last Modified: 04/14/2017
Material Name: Not reported

J32 **1563 BOONE AVE** **NY AST** **A100291539**
NNW **1563 BOONE AVENUE** **N/A**
< 1/8 **BRONX, NY 10460**
0.115 mi.
609 ft. **Site 1 of 3 in cluster J**

Relative:
Higher

Actual:
35 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-609862
Program Type: PBS
UTM X: 593999.57870
UTM Y: 4520829.52782
Expiration Date: 05/16/2016
Site Type: Auto Service/Repair (No Gasoline Sales)

Affiliation Records:
Site Id: 338190
Affiliation Type: Facility Operator
Company Name: 1563 BOONE AVE
Contact Type: Not reported
Contact Name: MELBA SMITH
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 542-6070
EMail: Not reported
Fax Number: Not reported
Modified By: BVCAMPBE
Date Last Modified: 2011-06-03

Site Id: 338190
Affiliation Type: Emergency Contact
Company Name: MELBA SMITH
Contact Type: Not reported
Contact Name: MELBA SMITH
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 542-6070
EMail: Not reported
Fax Number: Not reported
Modified By: BVCAMPBE
Date Last Modified: 2011-06-03

Site Id: 338190
Affiliation Type: Mail Contact
Company Name: MNG AUTOMOTIVE

1563 BOONE AVE (Continued) **A100291539**

Contact Type:	Not reported
Contact Name:	MELBA SMITH
Address1:	1563 BOONE AVE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(718) 542-6070
EMail:	MNGAUTOMOTIVE@HOTMAIL.COM
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	2011-06-03

Site Id:	338190
Affiliation Type:	Facility Owner
Company Name:	MELBA SMITH
Contact Type:	PRESIDENT
Contact Name:	MELBA SMITH
Address1:	1563 BOONE AVE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10460
Country Code:	001
Phone:	(718) 542-6070
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	2011-06-03

Tank Info:

Tank Number:	001
Tank Id:	182281
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

L00 - Piping Leak Detection - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
K01 - Spill Prevention - Catch Basin

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/03/2004
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MABARTLE

1563 BOONE AVE (Continued) **A100291539**

Last Modified: 04/14/2017
Material Name: Not reported

J33 **CON EDISION** **NY MANIFEST** **S116290841**
NNW **1559 BOONE AV** **N/A**
< 1/8 **BRONX, NY 10460**
0.116 mi.
610 ft. **Site 2 of 3 in cluster J**

Relative:
Higher

Actual:
35 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004592275
Facility Status: Not reported
Location Address 1: 1559 BOONE AV
Code: BP
Location Address 2: SB24985
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004592275
Mailing Name: CON EDISION
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL
Mailing Address 2: 15TH FL
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 07/10/2014
Trans1 Recv Date: 07/10/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/11/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004592275
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NJD991291105
TSDF ID 2: Not reported
Manifest Tracking Number: 002503560GBF
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N
Discr Type Indicator: N

CON EDISION (Continued) **S116290841**

Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

K34 **1405 COLGATE AVENUE** **NY AST** **U003394683**
SE **1405 COLGATE AVENUE** **N/A**
< 1/8 **BRONX, NY 10472**
0.121 mi.
637 ft. **Site 1 of 7 in cluster K**

Relative:
Higher

Actual:
24 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Inactive
Facility Id:	2-467359
Program Type:	PBS
UTM X:	595355.35362
UTM Y:	4521050.17584
Expiration Date:	N/A
Site Type:	Unknown

Affiliation Records:

Site Id:	20324
Affiliation Type:	Facility Owner
Company Name:	NYC HOUSING PRESERV & DEVEL
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2089-2091 ARTHUR AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10457

1405 COLGATE AVENUE (Continued) **U003394683**

Country Code:	001
Phone:	(718) 295-2178
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JAAVERSA
Date Last Modified:	2014-02-21

Site Id:	20324
Affiliation Type:	Mail Contact
Company Name:	NYC HOUSING PRESERV & DEVEL
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2089-2091 ARTHUR AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10457
Country Code:	001
Phone:	(718) 295-2178
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JAAVERSA
Date Last Modified:	2014-02-21

Site Id:	20324
Affiliation Type:	Emergency Contact
Company Name:	NYC HOUSING PRESERV & DEVEL
Contact Type:	Not reported
Contact Name:	DAVID RUBINOVITZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 806-8217
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	20324
Affiliation Type:	Facility Operator
Company Name:	1405 COLGATE AVENUE
Contact Type:	Not reported
Contact Name:	PIJUSH LODH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 806-8091
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

1405 COLGATE AVENUE (Continued) **U003394683**

Tank Info:

Tank Number:	001
Tank Id:	37001
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	L09 - Piping Leak Detection - Exempt Suction Piping
	G00 - Tank Secondary Containment - None
	J02 - Dispenser - Suction Dispenser
	I04 - Overfill - Product Level Gauge (A/G)
	B00 - Tank External Protection - None
	C00 - Pipe Location - No Piping
	F00 - Pipe External Protection - None
	A00 - Tank Internal Protection - None
	D01 - Pipe Type - Steel/Carbon Steel/Iron
	H00 - Tank Leak Detection - None
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Tank Converted to Non-Regulated Use
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	CGFREEDM
Last Modified:	04/14/2017
Material Name:	Not reported

H35 **DRUM RUN - PARKING LANE** **NY Spills** **S106970749**
East **1321 BRONX RIVER AVE** **N/A**
< 1/8 **BRONX, NY**
0.124 mi.
653 ft. **Site 2 of 2 in cluster H**

Relative:
Higher

Actual:
32 ft.

SPILLS:

Facility ID:	0505211
Facility Type:	ER
DER Facility ID:	296708
Site ID:	350267
DEC Region:	2
Spill Date:	2005-07-29
Spill Number/Closed Date:	0505211 / 2005-09-29
Spill Cause:	Abandoned Drums
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	2005-07-29
CID:	444
Water Affected:	Not reported
Spill Source:	Unknown

DRUM RUN - PARKING LANE (Continued) **S106970749**

Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2005-08-01
Spill Record Last Update:	2005-09-29
Spiller Name:	CHRIS HOSS
Spiller Company:	PARKING LANE
Spiller Address:	1321 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	CHRIS HOSS
Contact Phone:	(917) 769-1263
DEC Memo:	"Drum Run 09.29.05 SR// It was cleared on 09.27.05 Drum Run."
Remarks:	"1 DRUM: APPEARS NOT TO BE LEAKING"

Material:

Site ID:	350267
Operable Unit ID:	1107844
Operable Unit:	01
Material ID:	2097732
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

K36 **CON EDISON** **RCRA NonGen / NLR** **1012185546**
SSE **1243 BRONX RIVER AVE** **NY MANIFEST** **NYP004163549**
1/8-1/4 **BRONX, NY 10452**
0.127 mi.
672 ft. **Site 2 of 7 in cluster K**

Relative:
Higher

Actual:
21 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/01/2016
Facility name:	CON EDISON
Facility address:	1243 BRONX RIVER AVE BRONX, NY 10452
EPA ID:	NYP004163549
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	DANIEL PONTECORVO
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	347-203-2573
Contact email:	Not reported
EPA Region:	02

CON EDISON (Continued) **1012185546**

Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/27/2009
Site name: CON EDISON
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
Country: USA
EPA ID: NYP004163549
Facility Status: Not reported
Location Address 1: F/O 1243 BRONX RIVER AVE M/H 1219
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: Not reported
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004163549
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLYN MURRAY
Mailing Address 1: 4 IRVING PALCE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124602808

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported

CON EDISON (Continued) **1012185546**

Year:	2009
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	01/27/2009
Trans1 Recv Date:	01/27/2009
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/29/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004163549
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD077444263
TSDF ID 2:	Not reported
Manifest Tracking Number:	001432752FLE
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

37
NE
1/8-1/4
0.131 mi.
693 ft.

CON EDISON - EAST 173RD ST. WORKS MGP
WEST FARMS RD. AND BRONX RIVER
BRONX, NY 10459

EDR MGP **1008407867**
N/A

Relative:
Higher

Actual:
12 ft.

Manufactured Gas Plants:
No additional information available

L38
WNW
1/8-1/4
0.133 mi.
703 ft.

CON EDISON
1499 LONGFELLOW
BRONX, NY 10460

NJ MANIFEST **S120672274**
N/A

Site 1 of 6 in cluster L

Relative:
Higher

Actual:
39 ft.

NJ MANIFEST:

EPA Id:	NYP004788394
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	014091765JJK
EPA ID:	NYP004788394
Date Shipped:	5/30/2015
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NYD006982359
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported

CON EDISON (Continued) **S120672274**

Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

L39 **CON EDISON** **NJ MANIFEST** **S120670004**
WNW **1499 LONGFELLOW AVE** **N/A**
1/8-1/4 **BRONX, NY 10474**
0.133 mi.
703 ft. **Site 2 of 6 in cluster L**

Relative:
Higher

Actual:
39 ft.

NJ MANIFEST:

EPA Id:	NYP004762522
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002660891GBF
EPA ID:	NYP004762522
Date Shipped:	4/3/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported

CON EDISON (Continued) **S120670004**

Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

L40 **CON EDISON** **NY MANIFEST** **S119075590**
WNW **1499 LONGFELLOW** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.133 mi.
703 ft. **Site 3 of 6 in cluster L**

Relative:
Higher

Actual:
39 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004788394
Facility Status:	Not reported
Location Address 1:	LONG FELLOW AVE & E 172ND ST
Code:	BP
Location Address 2:	MH 17620
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004788394
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported

CON EDISON (Continued) **S119075590**

Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	05/30/2015
Trans1 Recv Date:	05/30/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/03/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004788394
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	014091765JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	150
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional NY_MANIFEST: record(s) in the EDR Site Report.

L41
WNW
1/8-1/4
0.133 mi.
703 ft.

CON EDISON
1499 LONGFELLOW AVE
BRONX, NY 10474

Site 4 of 6 in cluster L

NY MANIFEST **S119074130**
N/A

Relative:
Higher

Actual:
39 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004762522
Facility Status:	Not reported
Location Address 1:	1499 LONG FELLOW AVENUE
Code:	BP
Location Address 2:	M 17620
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004762522
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	04/03/2015
Trans1 Recv Date:	04/03/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/07/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004762522
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002660891GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S119074130**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional NY_MANIFEST: record(s) in the EDR Site Report.

K42 **THOMAS RES** **NY Spills** **S103829543**
SE **1252 BRONX RIVER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.134 mi.
705 ft. **Site 3 of 7 in cluster K**

Relative:
Higher

Actual:
26 ft.

SPILLS:

Facility ID:	9815456
Facility Type:	ER
DER Facility ID:	185888
Site ID:	225191
DEC Region:	2
Spill Date:	1999-03-29
Spill Number/Closed Date:	9815456 / 2004-06-16
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	1999-03-29
CID:	371
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1999-03-29

THOMAS RES (Continued) **S103829543**

Spill Record Last Update:	2004-06-21
Spiller Name:	ROSE GUIDO
Spiller Company:	PETRO OIL
Spiller Address:	5560 58TH ST
Spiller City,St,Zip:	MASPETH, NY -
Spiller Company:	001
Contact Name:	MRS THOMAS
Contact Phone:	(718) 893-8939
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was KRIMGOLD NO SEWERS OR DRAINS, CREW ON ITS WAY FOR CLEAN-UP. SPILL IS ONTO DIRT. 01/26/04 Reassinged from Rommel to Austin 02/17/04: Reassigned from AUSTIN to KRIMGOLD. 6/16/04. Unable to contact owner. Minimal spill. NFA. "
Remarks:	"fitting loosened after making delivery - clean up crew will respond "
	Not reported

Material:

Site ID:	225191
Operable Unit ID:	1076478
Operable Unit:	01
Material ID:	308561
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	1.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

K43 **215315; 1243 BRONX RIVER AVENUE** **NY Spills** **S110306923**
SSE **1243 BRONX RIVER AVENUE** **N/A**
1/8-1/4 **NEW YORK, NY**
0.136 mi.
718 ft. **Site 4 of 7 in cluster K**

Relative:
Higher

Actual:
22 ft.

SPILLS:

Facility ID:	0913981
Facility Type:	ER
DER Facility ID:	386923
Site ID:	432904
DEC Region:	2
Spill Date:	2009-01-27
Spill Number/Closed Date:	0913981 / 2009-01-27
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	DMPOKRZY
Referred To:	Not reported
Reported to Dept:	2009-03-30
CID:	Not reported
Water Affected:	Not reported

215315; 1243 BRONX RIVER AVENUE (Continued) **S110306923**

Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	Not reported
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2010-04-16
Spill Record Last Update:	2010-04-16
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON
Spiller Address:	5030 BROADWAY
Spiller City,St,Zip:	New York, NY
Spiller Company:	001
Contact Name:	ERT DESK
Contact Phone:	(212) 580-8383
DEC Memo:	""
Remarks:	""

Material:

Site ID:	432904
Operable Unit ID:	1183815
Operable Unit:	01
Material ID:	2178228
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

I44 **MANHOLE 27283** **NY Spills** **S104790301**
NNE **W FARM RD/E 173 RD ST** **N/A**
1/8-1/4 **BRONX, NY**
0.136 mi.
720 ft. **Site 7 of 10 in cluster I**

Relative:
Higher

Actual:
21 ft.

SPILLS:

Facility ID:	0007945
Facility Type:	ER
DER Facility ID:	107960
Site ID:	124687
DEC Region:	2
Spill Date:	2000-10-05
Spill Number/Closed Date:	0007945 / 2000-10-02
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	JHOCONNE
Referred To:	Not reported

MANHOLE 27283 (Continued) **S104790301**

Reported to Dept:	2000-10-05
CID:	207
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2000-10-05
Spill Record Last Update:	2001-01-16
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	TED ROBICHAUD
Contact Phone:	(212) 580-6763
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL DEC Investigator Notes: Third party spill from meat packing plant. Jane O'Connell referred Con Ed to NYC Dept of Health for follow-up. According to Con Ed's Larry Fischer of Bronx/Westchester Underground, there are three vaults that have been affected for many years by the same meat packing plant. e2MIS Notes: 1 quart of unknown oil on top of 200 gallons of a mix of water, grease (from meat house in front of hole) and oil in manhole #27283. Appears to be a 3rd party spill from meat market. Conduit plate 16-m-1 indicates no sewer connection. Sample will be taken. Address of store 1565 West Farms Road is where 3rd party spill came from. "
Remarks:	"clenaup pending labs 133811 1 qt total product"

Material:

Site ID:	124687
Operable Unit ID:	830430
Operable Unit:	01
Material ID:	545463
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	1.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

F45 **ON SIDEWALK** **NY Spills** **S106383704**
SE **1259 EVERGREEN AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.137 mi.
723 ft. **Site 3 of 3 in cluster F**

Relative:
Higher

Actual:
27 ft.

SPILLS:

Facility ID:	0313583
Facility Type:	ER
DER Facility ID:	134342
Site ID:	158969
DEC Region:	2
Spill Date:	2004-03-11
Spill Number/Closed Date:	0313583 / 2004-06-07
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	SKARAKHA
Referred To:	Not reported
Reported to Dept:	2004-03-11
CID:	444
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-03-11
Spill Record Last Update:	2004-06-07
Spiller Name:	ERT DESK
Spiller Company:	ON SIDEWALK
Spiller Address:	1259 EVERGREEN AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	ERT DESK
Contact Phone:	(212) 580-8383
DEC Memo:	"e2mis 152450 Trouble Shooter HV Rafael Peralta 07981 reports finding third party spill of 1/4 gal. motor oil on soil and leaves bet. sidewalk and curb f/o 1259 Evergreen Av, Bx. from an unk. vehicle. No fire or smoke was/is involved. No release to sewer or waterways. Cleanup started by employee Peralta 07981 and Splicer Earl Hamilton 62670 at 08:50 hours. Cleanup completed by employee Peralta 07981 and Splicer Earl Hamilton at 09:30 hours and 1 bag of non haz oily debris waste generated and disposed of at Van Nest SC waste handling area."
Remarks:	"unknown cause and unknown spill sours. Con ed will clean up: No to 5 Questions; Con Ed # 152450"

Material:

Site ID:	158969
Operable Unit ID:	878714
Operable Unit:	01
Material ID:	495183
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum

ON SIDEWALK (Continued) **S106383704**

Quantity:	.00
Units:	Pounds
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

I46 **0940 (TRANFORMER MANHOLE)** **NY Spills** **S104952357**
NNE **E 173 ST & W FARMS RD** **N/A**
1/8-1/4 **BRONX, NY**
0.137 mi.
725 ft. **Site 8 of 10 in cluster I**

Relative:
Higher

Actual:
21 ft.

SPILLS:

Facility ID:	0011553
Facility Type:	ER
DER Facility ID:	203060
Site ID:	247306
DEC Region:	2
Spill Date:	2001-01-25
Spill Number/Closed Date:	0011553 / 2001-06-05
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	2001-01-25
CID:	365
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-01-25
Spill Record Last Update:	2001-08-13
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was FOLEY CON ED E2MIS REPORT 1-25-01 1pt of unknown oil on top of water and mud in TM #940. Conduit plate 16-m-1 indicates a sewer connection. TM was being pumped when sheen was noticed on top of water, pumping ws halted. Source /cause of spill unknown. samples taken Arocor none; PCB <1.00ppm Unit was pressure tested on 1-28-01 and passed. Secondary cables need to be replaced, the insulation is falling off the cbale which caused smoking in the vault. Cables were

0940 (TRANFORMER MANHOLE) (Continued) **S104952357**

not replaced because of rain. 2-15-01 1300hrs. Feeder 4x45 scheduled to be taken out of service this evening in oder to perform a transformer replacement and an environmental cleanup on 2-16-01 hasbeen cancelled due to a conflict with water pollution plant customer equipment. Feeder will be rescheduled for outage on 2-23-01. 19:45hrs. Env. Ops. completed cleanup of TM. Crew removed approx. 1pt oil and 1.200gals. of water. Cleaned and double washed the TM, tag removed. Cleanup completed at 19:45hrs."

Remarks: "1 PINT UNK OIL - CLEAN UP PENDING LAB RESULTS - REF #135224"

Material:

Site ID:	247306
Operable Unit ID:	833598
Operable Unit:	01
Material ID:	541861
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

I47 **CON EDISON** **NY MANIFEST** **S117319095**
NNE **W FARMS RD & E 173RD ST** **N/A**
1/8-1/4 **BRONX, NY**
0.137 mi.
725 ft. **Site 9 of 10 in cluster I**

Relative:
Higher

Actual:
21 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004667457
Facility Status:	Not reported
Location Address 1:	W FARMS RD & E 173RD ST
Code:	BP
Location Address 2:	VAULT 196
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004667457
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA

CON EDISON (Continued) **S117319095**

Mailing Phone: 2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	09/26/2014
Trans1 Recv Date:	09/26/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/26/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004667457
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	013255747JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

I48
NNE
1/8-1/4
0.137 mi.
725 ft.

CON EDISON
E 173RD ST & WEST FARMS RD
BRONX, NY 10465

Site 10 of 10 in cluster I

NY MANIFEST **S117736438**
N/A

Relative:
Higher

Actual:
21 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004516092
Facility Status:	Not reported
Location Address 1:	E173 ST & WEST FARMS RD
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10465
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004516092
Mailing Name:	CON EDISON
Mailing Contact:	TOM TELLING
Mailing Address 1:	4 IRVING PLACE-15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	04/29/2014
Trans1 Recv Date:	04/29/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/30/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004516092
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	012771898JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S117736438**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	3000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

K49 **APEX SALES, TOWING & LEASING, INC.** **NY CBS** **S108130286**
SSE **1235 BRONX RIVER AVE.** **NY Spills** **N/A**
1/8-1/4 **BRONX, NY 10472** **NY SPDES**
0.142 mi.
748 ft. **Site 5 of 7 in cluster K**

Relative:
Higher

Actual:
20 ft.

CBS:

CBS Number:	2-000425
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	594213.49160
UTMY:	4520421.04528

SPILLS:

Facility ID:	0605983
Facility Type:	ER
DER Facility ID:	319146
Site ID:	369262
DEC Region:	2
Spill Date:	2006-08-23
Spill Number/Closed Date:	0605983 / 2006-08-29
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2006-08-23
CID:	27

APEX SALES, TOWING & LEASING, INC. (Continued) **S108130286**

Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-08-24
Spill Record Last Update:	2015-12-28
Spiller Name:	Not reported
Spiller Company:	SALVAGE YARD
Spiller Address:	1235 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY 10472
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	"08/24/06-Vought-Off hours spill responder. Vought repsonded to spill on 8/23/06 at 21:00 and fire still in progress so site inspection not possible. Vought inspected Bronx River (separated from Apex Sales by train tracks) and no impact to Bronx River other than sheen. Sheen may also be biological but unable to tell due to lack of light. No free product or impacted wildlife noted. As per FDNY Hazamat three tanks were onsite: two (275-gallon) fuel oil and one (275-gallon) waste oil and currently tanks were not comprimised. Buildings adjacent to site were evacuated however no toxic fumes noted (other than burning cars and debris). Contact information for owner is: Apex Sales Bill Maio 718-328-7000 cell: 914-760-3831. Fire may have been started on adjacent train tracks. Vought received call from FDNY Chief Weinlein (718-999-7900) on 8/23 at 21:16pm and access to site still not possible. Vought told him that site inspection would be performed on 8/24/06 and he would be called with results. Vought called Weinlein and left message informing him that site inspection was performed and DEC's only requirement was recovery of small puddle of transmission oil (approximately 10' in diameter) in rear of property. Vought conveyed requirement to Bill Maio (owner) and owner will submit invoice and documents of cleanup (possible disposal manifest). Vought also met with Resa Dimino (Bronx River Alliance 718-430-4648) and walked River and site with her. She agreed on no spill to Bronx River and requested no further action from DEC. Vought received call from USCG (718-354-4121) and returned call and left message with DEC requirement. Vought will followup with with cleanup of puddle of transmission oil on 8/25/06. 08/29/06-Vought-received letter from Apex Sales Towing & Leasing dated 8/25/06. We have rectified all hazards to the yard at to your specifications. Enclosed please find receipt for the materials purchased to facilitate the removal of these hazards . Receipt from S&S Adsorbents and EnviroWaste Oil Recovery also included for druming and disposal of used adsorbent materials. Spill closed by Vought. 12/28/15-Vought-Received email from DEC Erin Shirkey that site is part of the Bronx River Greenway project and she was inquiring about spill status. Vought sent her copy of these spill notes and note that spill had been closed and that if she needed further assistance to let Vought know. Vought sent email that Erin, My apologies for my delay in response. The above spill was closed on August 29, 2006. I have attached the Spill Report above that has more information on the

APEX SALES, TOWING & LEASING, INC. (Continued) **S108130286**

response and cleanup. I also ran the address under the NYCDOB database for alternate addresses, found that there were no others, and then searched our Spills database and found no other open or closed spills associated with the site. If you need anything else, please don t hesitate to ask. DEC Shirkey replied with thanks."

Remarks: "Caller reports a fire at a salvage yard. Fire caused the spill of the materials. No cleanup company has been contacted. FDNY is on the scene. 2nd call at same time from FF Morris Hazmat 1 FDNY at 914.552.2516 requests on call rep to call. Petty Officer Sierra of US Coast Guard req call back from reg 2 DEC Rep in ref to impact of Bronx River @ 718-354-4121 "

Material:

Site ID:	369262
Operable Unit ID:	1127104
Operable Unit:	01
Material ID:	2116685
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported
Site ID:	369262
Operable Unit ID:	1127104
Operable Unit:	01
Material ID:	2116686
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported
Site ID:	369262
Operable Unit ID:	1127104
Operable Unit:	01
Material ID:	2116687
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

APEX SALES, TOWING & LEASING, INC. (Continued) **S108130286**

SPDES:

Permit Number:	NYR00E133
State-Region:	02
Expiration Date:	03/31/2012
Current Major Minor Status:	Minor
Primary Facility SIC Code:	5015
State Water Body Name:	BRONX RIVER
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.829444 / -73.882778
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	APEX SALES TOWING AND LEASING CORP
Non-Gov Permit Street Address:	APEX SALES TOWING AND LEASING CORP
Non-Gov Permit Supplemental Location:	1235 BRONX RIVER AVE
Non-Gov Permit City:	BRONX
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10472
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Street Address:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Supplemental Location:	1235 BRONX RIVER AVE
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10472
State Water Body:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	APEX SALES TOWING AND LEASING CORP
Non-Gov Permit Street Address:	1235 BRONX RIVER AVE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BRONX
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10472
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Street Address:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Supplemental Location:	1235 BRONX RIVER AVE
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10472
State Water Body:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005

APEX SALES, TOWING & LEASING, INC. (Continued) **S108130286**

Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Street Address:	APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Supplemental Location:	1235 BRONX RIVER AVE
Non-Gov Facility City:	BRONX
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10472
State Water Body:	Not reported

K50 **1255 EVERGREEN AVENUE** **NY Spills** **S102147576**
SE **1255 EVERGREEN AVENUE** **N/A**
1/8-1/4 **BRONX, NY**
0.143 mi.
755 ft. **Site 6 of 7 in cluster K**

Relative:
Higher

Actual:
27 ft.

SPILLS:

Facility ID:	9312214
Facility Type:	ER
DER Facility ID:	236596
Site ID:	292227
DEC Region:	2
Spill Date:	1994-01-16
Spill Number/Closed Date:	9312214 / 1994-01-17
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	1994-01-17
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	1994-01-17
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1994-01-20
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	""
Remarks:	"BUILD UP OF PRESSURE IN TANK, VALVE FAILED. WHALECO CLEANED UP WITH SPEEDY DRI - NO CALL BACK."

1255 EVERGREEN AVENUE (Continued) **S102147576**

Material:

Site ID:	292227
Operable Unit ID:	994229
Operable Unit:	01
Material ID:	391204
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-10.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

M51 **NYCHA - WEST FARMS ROAD REHAB** **RCRA-CESQG** **1010566479**
SW **1323 W FARMS RD** **NJ MANIFEST** **NYR000151274**
1/8-1/4 **BRONX, NY 10455** **NY MANIFEST**
0.148 mi.
780 ft. **Site 1 of 2 in cluster M**

Relative:
Higher

Actual:
35 ft.

RCRA-CESQG:

Date form received by agency:	10/16/2007
Facility name:	NYCHA - WEST FARMS ROAD REHAB
Facility address:	1323 W FARMS RD BRONX, NY 10455
EPA ID:	NYR000151274
Mailing address:	49TH AVE NYCHA LONG ISLAND CITY, NY 11101
Contact:	ANTHONY N SOLOMITA
Contact address:	49TH AVE NYCHA LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	718-707-5731
Contact email:	7187075266
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Owner/Operator Summary:
Owner/operator name: NEW YORK CITY HOUSING AUTHORITY
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: 08/31/1986
Owner/Op end date: Not reported

Owner/operator name: NEW YORK CITY HOUSING AUTHORITY
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: 08/31/1986
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 10/15/2007
Site name: NYCHA - WEST FARMS ROAD REHAB
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NJ MANIFEST:
EPA Id: NYR000151274

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Mail Address:	49TH AVE
Mail City/State/Zip:	LONG ISLAND CITY, NY 11101
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	ANTHONY N SOLOMITA
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	003532000JJK
EPA ID:	NYR000151274
Date Shipped:	08/01/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/01/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/01/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	150 P

Manifest Number:	003531672JJK
EPA ID:	NYR000151274
Date Shipped:	06/27/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/27/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/27/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200 P

Manifest Number:	001028570JJK
EPA ID:	NYR000151274

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Shipped:	07/15/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/15/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/15/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	60 P

Manifest Number:	001031231JJK
EPA ID:	NYR000151274
Date Shipped:	05/23/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/23/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/23/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	55 G

Manifest Number:	003634918JJK
EPA ID:	NYR000151274
Date Shipped:	04/25/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/25/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/25/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	60 P

Manifest Number:	001031927JJK
EPA ID:	NYR000151274
Date Shipped:	05/09/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/09/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/09/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	80 P

Manifest Number:	003634823JJK
EPA ID:	NYR000151274
Date Shipped:	04/18/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/18/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/18/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200 P

Manifest Number:	001026780JJK
EPA ID:	NYR000151274
Date Shipped:	11/16/2007
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/16/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/16/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Manifest Number:	003636612JJK
EPA ID:	NYR000151274
Date Shipped:	03/14/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/14/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/14/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	120 P

Manifest Number:	001028524JJK
EPA ID:	NYR000151274
Date Shipped:	08/08/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/08/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/08/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	55 G

Manifest Number:	003535512JJK
EPA ID:	NYR000151274
Date Shipped:	11/02/2007
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/02/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/02/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported
Manifest Number:	003535545JJK
EPA ID:	NYR000151274
Date Shipped:	11/09/2007
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/09/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/09/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported
Manifest Number:	003531920JJK
EPA ID:	NYR000151274
Date Shipped:	07/18/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/18/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/18/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200 P

Manifest Number:	003531735JJK
EPA ID:	NYR000151274
Date Shipped:	06/13/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/13/2008

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/13/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	55 G

Manifest Number:	003531881JJK
EPA ID:	NYR000151274
Date Shipped:	07/11/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/11/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/11/2008

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	250 P

Manifest Number:	001026943JJK
EPA ID:	NYR000151274
Date Shipped:	03/20/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/20/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/20/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	250 P

Manifest Number:	003531615JJK
EPA ID:	NYR000151274
Date Shipped:	06/06/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/06/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/06/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Quantity:	280 P
Manifest Number:	003536864JJK
EPA ID:	NYR000151274
Date Shipped:	11/26/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/26/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/26/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	60 G
Manifest Number:	003634622JJK
EPA ID:	NYR000151274
Date Shipped:	11/30/2007
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/30/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/30/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Manifest Number:	003531483JJK
EPA ID:	NYR000151274
Date Shipped:	04/11/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/11/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/11/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LONG ISLAND CITY, NY 11101
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	100 P

NY MANIFEST:

Country:	USA
EPA ID:	NYR000151274
Facility Status:	Not reported
Location Address 1:	1323 WEST FARMS ROAD
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10451
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000151274
Mailing Name:	NYCHA - WEST FARMS ROAD REHAB
Mailing Contact:	RANKO VURADINOVIC
Mailing Address 1:	23-02 49th AVE
Mailing Address 2:	Not reported
Mailing City:	LONG ISLAND CITY
Mailing State:	Ny
Mailing Zip:	11101
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2123062954

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2008

NYCHA - WEST FARMS ROAD REHAB (Continued) **1010566479**

Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	11/26/2008
Trans1 Recv Date:	11/26/2008
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/26/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000151274
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	003536864JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H111
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	60.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
27 additional NY_MANIFEST: record(s) in the EDR Site Report.

J52 **ALEX AUTO REPAIR SHOP** **RCRA NonGen / NLR** **1001233203**
North **1006 E 173RD ST** **FINDS** **NYR000063396**
1/8-1/4 **BRONX, NY 10460** **ECHO**
0.150 mi. **NY MANIFEST**
790 ft. **Site 3 of 3 in cluster J**

Relative:
Higher

Actual:
31 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	ALEX AUTO REPAIR SHOP
Facility address:	1006 E 173RD ST BRONX, NY 10460
EPA ID:	NYR000063396
Mailing address:	E 173RD ST BRONX, NY 10460
Contact:	ANGELA ROSADO
Contact address:	E 173RD ST BRONX, NY 10460
Contact country:	US
Contact telephone:	718-893-6190
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BOONE AVENUE REALTY
Owner/operator address:	810 E 170TH ST BRONX, NY 10459
Owner/operator country:	US
Owner/operator telephone:	718-328-4210
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	BOONE AVENUE REALTY
Owner/operator address:	810 E 170TH ST BRONX, NY 10459
Owner/operator country:	US
Owner/operator telephone:	718-328-4210
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

ALEX AUTO REPAIR SHOP (Continued) **1001233203**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: ALEX AUTO REPAIR SHOP
Classification: Not a generator, verified

Date form received by agency: 11/13/1998
Site name: ALEX AUTO REPAIR SHOP
Classification: Small Quantity Generator

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

FINDS:

Registry ID: 110004548669

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1001233203
Registry ID: 110004548669
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004548669

NY MANIFEST:
Country: USA
EPA ID: NYR000063396
Facility Status: Not reported
Location Address 1: 1006 E 173RD ST
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460

ALEX AUTO REPAIR SHOP (Continued) **1001233203**

Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000063396
Mailing Name:	ALEX AUTO REPAIR SHOP
Mailing Contact:	N/S
Mailing Address 1:	1006 E 173RD ST
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10460
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7188936190

NY MANIFEST:

Document ID:	ILA9180957
Manifest Status:	Not reported
seq:	01
Year:	2000
Trans1 State ID:	UPW151288
Trans2 State ID:	UPW203954
Generator Ship Date:	03/03/2000
Trans1 Recv Date:	03/03/2000
Trans2 Recv Date:	03/08/2000
TSD Site Recv Date:	03/11/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000063396
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	SCR000074591
TSDF ID 1:	ILD980613913
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	F005 - UNKNOWN
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00036
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

ALEX AUTO REPAIR SHOP (Continued) **1001233203**

Click this hyperlink while viewing on your computer to access
13 additional NY_MANIFEST: record(s) in the EDR Site Report.

N53 **NYC BD OF ED - PUBLIC SCHOOL 84 BRONX** **RCRA-SQG** **1004759428**
WSW **1434 LONGFELLOW AVE** **NY Spills** **NYR000010553**
1/8-1/4 **BRONX, NY 10460** **FINDS**
0.152 mi. **ECHO**
801 ft. **Site 1 of 3 in cluster N** **NY MANIFEST**

Relative:
Higher

Actual:
50 ft.

RCRA-SQG:

Date form received by agency:	10/21/2014
Facility name:	NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Facility address:	1434 LONGFELLOW AVE BRONX, NY 10460
EPA ID:	NYR000010553
Mailing address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact:	ALEXANDER LEMPERT
Contact address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	718-472-8501
Contact email:	ALEMPERT@NYCSCA.ORG
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NYC BOARD OF EDUCATION
Owner/operator address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	718-472-8501
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	01/26/1972
Owner/Op end date:	Not reported

Owner/operator name:	NYC BOARD OF EDUCATION
Owner/operator address:	28-11 QUEENS PLZ N LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	718-349-5600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported

NYC BD OF ED - PUBLIC SCHOOL 84 BRONX (Continued) **1004759428**

Owner/Op end date: Not reported

Owner/operator name: NYC BOARD OF EDUCATION
Owner/operator address: 28-11 QUEENS PLZ N
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: 718-349-5600
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYC BOARD OF EDUCATION
Owner/operator address: THOMSON AVE
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: 718-472-8501
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 01/26/1972
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: B004
. Waste name: B004

. Waste code: B007
. Waste name: B007

Historical Generators:
Date form received by agency: 01/01/2007
Site name: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Classification: Not a generator, verified

NYC BD OF ED - PUBLIC SCHOOL 84 BRONX (Continued) **1004759428**

Date form received by agency: 01/01/2006
Site name: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Classification: Not a generator, verified

Date form received by agency: 08/08/1995
Site name: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

SPILLS:
Facility ID: 1103358
Facility Type: ER
DER Facility ID: 405468
Site ID: 450919
DEC Region: 2
Spill Date: 2011-06-24
Spill Number/Closed Date: 1103358 / 2011-09-19
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: RMPIPER
Referred To: Not reported
Reported to Dept: 2011-06-24
CID: Not reported
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2011-06-24
Spill Record Last Update: 2011-09-19
Spiller Name: Not reported
Spiller Company: PS 84
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: AXEL SCHWENDT
Contact Phone: (646) 388-9529
DEC Memo: "School is upgrading the elevator. Contractor pulled the piston and discovered some hydraulic oil in the 24ft piston hole in bedrock. Hole was bailed out and now they are planning what additional work is needed. Bore hole was pumped of water and oil. Recharge rate was observed to be very little over the course of a few days. Bore hole pumped again though minimal water and no product. Bore will be overdrilled to accomodate larger piston for larger elevator. Spill can be closed after submission of work to date, disposal for

NYC BD OF ED - PUBLIC SCHOOL 84 BRONX (Continued) **1004759428**

additional cuttings. 9/8/2011- AKRF was on site to conduct screening of the soil during the over-drilling of the piston hole. No staining or odors were noted during the drilling activities. All soil was containerized into 55-gallon drums, analyzed for waste characterization, and shipped off-site for disposal. Based on nature of spill and work to date, this spill is closed."

Remarks: "elevator piston pulled out of ground - found leaking - cleanup in progress"

Material:

Site ID:	450919
Operable Unit ID:	1201119
Operable Unit:	01
Material ID:	2197618
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

FINDS:

Registry ID: 110004516836

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004759428
Registry ID:	110004516836
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004516836

NY MANIFEST:

Country:	USA
EPA ID:	NYR000010553
Facility Status:	Not reported
Location Address 1:	1434 LONGFELLOW AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported

NYC BD OF ED - PUBLIC SCHOOL 84 BRONX (Continued) **1004759428**

Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000010553
Mailing Name:	NYC BOARD OF EDUCATION
Mailing Contact:	JACK BRUCCULERI
Mailing Address 1:	28-11 QUEENS PLAZA NORTH
Mailing Address 2:	Not reported
Mailing City:	LONG ISLAND CITY
Mailing State:	NY
Mailing Zip:	11101
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7183616094

NY MANIFEST:

Document ID:	NJA2182104
Manifest Status:	K
seq:	Not reported
Year:	1995
Trans1 State ID:	50082
Trans2 State ID:	S6993
Generator Ship Date:	08/12/1995
Trans1 Recv Date:	08/12/1995
Trans2 Recv Date:	10/12/1995
TSD Site Recv Date:	10/12/1995
Part A Recv Date:	/ /
Part B Recv Date:	10/24/1995
Generator EPA ID:	NYR000010553
Trans1 EPA ID:	NY0000551218
Trans2 EPA ID:	NJD980772768
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00100
Units:	P - Pounds
Number of Containers:	001

NYC BD OF ED - PUBLIC SCHOOL 84 BRONX (Continued) **1004759428**

Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

O54 **CON EDISON** **NY MANIFEST** **S119075944**
North **173RD ST & BOONE AVE** **N/A**
1/8-1/4 **BRONX, NY 10457**
0.152 mi.
803 ft. **Site 1 of 8 in cluster O**

Relative:
Higher

Actual:
30 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004795753
Facility Status:	Not reported
Location Address 1:	173 ST BOONE AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004795753
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	06/17/2015
Trans1 Recv Date:	06/17/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/17/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004795753
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported

CON EDISON (Continued) **S119075944**

Manifest Tracking Number:	014454223JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	Not reported
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	D008
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional NY_MANIFEST: record(s) in the EDR Site Report.

O55 **CON EDISON** **NJ MANIFEST** **S120672923**
North **173RD ST & BOONE AVE** **N/A**
1/8-1/4 **BRONX, NY 10457**
0.152 mi.
803 ft. **Site 2 of 8 in cluster O**

Relative:
Higher

Actual:
30 ft.

NJ MANIFEST:

EPA Id:	NYP004795753
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

CON EDISON (Continued) **S120672923**

Manifest:

Manifest Number:	014454223JJK
EPA ID:	NYP004795753
Date Shipped:	6/17/2015
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

L56 **1498 BRYANT AVE** **NY Spills** **S106720880**
WNW **1498 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.156 mi.
822 ft. **Site 5 of 6 in cluster L**

Relative:
Higher

Actual:
56 ft.

SPILLS:

Facility ID:	0409544
Facility Type:	ER
DER Facility ID:	269515
Site ID:	334305
DEC Region:	2
Spill Date:	2004-11-24

1498 BRYANT AVE (Continued) **S106720880**

Spill Number/Closed Date:	0409544 / 2004-11-30
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2004-11-24
CID:	403
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2004-11-24
Spill Record Last Update:	2004-11-30
Spiller Name:	DAN SILVESTRO
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	DAN SILVESTRO
Contact Phone:	(718) 893-4400
DEC Memo:	"11/30/2004 Sangesland spoke to Dan Silvestro. He says there was a 5 gal spill onto a driveway. The whole spill was on cement. The second day, the oil company went back to the site and laid out new drysol and swept again. Site is all clean. "
Remarks:	"driver went to the wrong address and overfilled the tank.cleaning the spill up now."

Material:

Site ID:	334305
Operable Unit ID:	1096444
Operable Unit:	01
Material ID:	576321
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

P57
ESE
1/8-1/4
0.161 mi.
852 ft.

CON EDISON
1252 EVERGREEN AVE
BRONX, NY 10457

Site 1 of 3 in cluster P

NY MANIFEST **S117061156**
N/A

Relative:
Higher

Actual:
28 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004534368
Facility Status:	Not reported
Location Address 1:	1252 EVENGREEN AVE
Code:	BP
Location Address 2:	SB 3790
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004534368
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	05/16/2014
Trans1 Recv Date:	05/16/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/16/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004534368
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	012771925JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S117061156**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

N58 **PRIVATE HOME** **NY Spills** **S109061174**
WSW **1447 LONGFELLOW AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.165 mi.
873 ft. **Site 2 of 3 in cluster N**

Relative:
Higher

Actual:
52 ft.

SPILLS:

Facility ID:	0713851
Facility Type:	ER
DER Facility ID:	345193
Site ID:	395674
DEC Region:	2
Spill Date:	2008-03-31
Spill Number/Closed Date:	0713851 / 2008-04-02
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	2008-03-31
CID:	408
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-03-31

PRIVATE HOME (Continued) **S109061174**

Spill Record Last Update: 2008-04-28
Spiller Name: Not reported
Spiller Company: UNKOWN;
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: PAUL CRYSTAL
Contact Phone: (718) 991-1621
DEC Memo: "04/01/08-Hiralkumar Patel. spoke with Ms. Crystal on 03/31/08, in evening. asked her for landlord and oil company's information. she didn't had any number. she complained about odors inside her apartment. suggest her to call FDNY for initial cleanup. she reject to call FDNY as she wants DEC representative to look at spill site first before any cleanup. explained her that as no contact info available for property owner or oil company, the department has very little resource for cleanup and if she is concerned about health, she should call FDNY. she refused and hung up. spoke with DEC Austin after talking to Ms. Crystal. DEC Austin mentioned that as tenant is rejecting to call FDNY for initial cleanup, no need for response in evening and can visit site in next day morning. visited site on 04/01/08, in morning at 8 AM. found minor oil spilled near fill box and minor odor around fill box area. the spill area is in front of basement door and Ms. Crystal is living in basement. no sign of overfill found at vent pipe. spoke with Mr. Crystal. he mentioned that every time after oil delivery, oil drips from fill box on to floor in front of their entrace door. site has two 275 gal ASTs inside basement. found stain on tank walls, representing old overfill from valves/joints on top of tank. no odors found inside basement around tank. small stain found on floor under tank. no sign of leak from tank bottom. Mr. Crystal mentioned that oil drips from fill box even after oil delivery. inspect fill box and vent line and found that vent line is little higher in elevation (about one foot) than fill box and its possible that during delivery, driver might be filling tank to the top and oil which comes into vent line, push back under gravity and as fill box is lower in elevation, that oil comes out from loose fill box. during site visit, Ms. Crystal gave delivery ticket, which she found later in last night. as per delivery ticket, 149 gal of oil delivered on 03/31/08. spoke with John at New Age fuel oil. John mentioned that Crystal transportation delivers oil at the site. asked John to send crew for cleanup, immediately. also asked to hold further deliveries until tank system tested and passed. spoke with Mr. Arzu, property owner. he ownes building for eight years and tanks were installed before that. asked Mr. Arzu to cleanup oil spill by end of today and also to test sytem before any more oil deliveries. also asked Mr. Arzu to fill tank to 90% capacity to prevent such situation. Mr. Arzu will do tank test. Ajuince Arzu **property owner** 5 Hanover Square, 14th Floor New York, NY 10004 Ph. (212) 785-1525 (O) (732) 284-0990 (C) Fax (212) 785-0629 email: ajuince@optonline.net John **oil company** New Age Fuel Oil Corp. 1111 Calhoun Ave Bronx, NY 10465 PH. (718) 239-9276 04/02/08-Hiralkumar Patel. received call from John on 04/01/08. he mentioned that oil company went to site for cleanup. spoke with Mr. Crystal today. he confirmed that cleanup done and no odors in area. tenant is satisfied. spoke with Mr. Arzu. mentioned to him that as tenant satisfied with cleanup and as no odors in area, the department doesn't requires anymore in reference to spill cleanup. but the department still requires tank test and test must be performed in two

PRIVATE HOME (Continued) **S109061174**

weeks. left message for John mentioning that no more work required in reference to spill cleanup. based on observations during site visit, case closed."

Remarks: "UNKOWN IF ANY CLEAN UP AT THIS TIME;"

Material:

Site ID:	395674
Operable Unit ID:	1152617
Operable Unit:	01
Material ID:	2143398
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Site ID:	395674
Spill Tank Test:	2384940
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	Not reported
Test Method:	Unknown

O59 **ADHESIVE PRODUCTS CORP** **NY Spills** **1000222173**
North **1660-1684 BOONE AVE** **RCRA NonGen / NLR** **NYD001360031**
1/8-1/4 **NEW YORK, NY 10460** **NY MANIFEST**
0.166 mi.
879 ft. **Site 3 of 8 in cluster O**

Relative:
Higher

Actual:
29 ft.

SPILLS:

Facility ID:	9203740
Facility Type:	ER
DER Facility ID:	180040
Site ID:	217467
DEC Region:	2
Spill Date:	1992-06-09
Spill Number/Closed Date:	9203740 / 2001-03-21
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	1992-06-30
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-07-08
Spill Record Last Update:	2002-05-09
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	""
Remarks:	"7.0 PPB-7.2 PPB; TPH, TOLUENE. FORMER ADHESIVES PRODUCT CORP. ONGOING CLEANUP . NYCDEP INVOLVED."

Material:

Site ID:	217467
Operable Unit ID:	967543
Operable Unit:	01
Material ID:	411518
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Pounds
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	ADHESIVE PRODUCTS CORP
Facility address:	1660-1684 BOONE AVE NEW YORK, NY 10460
EPA ID:	NYD001360031
Mailing address:	BOONE AVE NEW YORK, NY 10460
Contact:	Not reported
Contact address:	BOONE AVE NEW YORK, NY 10460
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Owner/Operator Summary:

Owner/operator name:	ART 4TH TRUST LUCILLE MEDWICK
Owner/operator address:	435 W 23RD ST
	NEW YORK, NY 10011
Owner/operator country:	US
Owner/operator telephone:	212-366-4100
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ART 4TH TRUST LUCILLE MEDWICK
Owner/operator address:	435 W 23RD ST
	NEW YORK, NY 10011
Owner/operator country:	US
Owner/operator telephone:	212-366-4100
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Site name:	ADHESIVE PRODUCTS CORP
Classification:	Not a generator, verified

Date form received by agency:	07/08/1999
Site name:	ADHESIVE PRODUCTS CORP
Classification:	Not a generator, verified

Date form received by agency:	08/04/1992
Site name:	ADHESIVE PRODUCTS CORP
Classification:	Large Quantity Generator

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

. Waste code: D000
. Waste name: Not Defined

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	Generators - Records/Reporting
Date violation determined:	04/30/1993
Date achieved compliance:	11/01/1993
Violation lead agency:	State
Enforcement action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date:	11/01/1993
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	Not reported
Area of violation:	Generators - Records/Reporting
Date violation determined:	04/30/1993
Date achieved compliance:	11/01/1993
Violation lead agency:	State
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	08/04/1993
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	1200
Paid penalty amount:	Not reported

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	04/10/1992
Date achieved compliance:	08/22/1993
Violation lead agency:	EPA
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	09/28/1992
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	74850
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	04/10/1992
Date achieved compliance:	08/22/1993
Violation lead agency:	EPA
Enforcement action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date:	08/22/1993
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	1000
Paid penalty amount:	Not reported

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Evaluation Action Summary:
Evaluation date: 08/22/1993
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/30/1993
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 11/01/1993
Evaluation lead agency: State

Evaluation date: 04/10/1992
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/10/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/22/1993
Evaluation lead agency: EPA

NY MANIFEST:
Country: USA
EPA ID: NYD001360031
Facility Status: Not reported
Location Address 1: 1660 BOONE AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD001360031
Mailing Name: ADHESIVE PRODUCTS
Mailing Contact: N/S
Mailing Address 1: 435 N 23RD ST-STE 1B
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10011
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2123664100

NY MANIFEST:
Document ID: NYB4335723
Manifest Status: K
seq: Not reported
Year: 1992
Trans1 State ID: 10210PNY

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Trans2 State ID:	Not reported
Generator Ship Date:	11/19/1992
Trans1 Recv Date:	11/19/1992
Trans2 Recv Date:	/ /
TSD Site Recv Date:	11/23/1992
Part A Recv Date:	12/01/1992
Part B Recv Date:	12/14/1992
Generator EPA ID:	NYD001360031
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD057770109
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	U223 - TOLUENE DIISOCYANATE
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.

ADHESIVE PRODUCTS CORP (Continued) **1000222173**

Specific Gravity:	100
Waste Code:	U044 - CHLOROFORM
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00020
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
17 additional NY_MANIFEST: record(s) in the EDR Site Report.

O60 **CON EDISION** **NY MANIFEST** **S117066606**
North **1674 BOONE AV** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.166 mi.
879 ft. **Site 4 of 8 in cluster O**

Relative:
Higher

Actual:
29 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004592804
Facility Status:	Not reported
Location Address 1:	1674 BOONE AV
Code:	BP
Location Address 2:	SB25112
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004592804
Mailing Name:	CON EDISION
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/10/2014
Trans1 Recv Date:	07/10/2014

CON EDISION (Continued) **S117066606**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004592804
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503562GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

M61 **CON EDISON** **NY MANIFEST** **S117067187**
SW **1314 WEST FARMS ROAD** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.167 mi.
880 ft. **Site 2 of 2 in cluster M**

Relative:
Higher

Actual:
35 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004599288
Facility Status:	Not reported
Location Address 1:	1314 WEST FARMS ROAD
Code:	BP
Location Address 2:	SB 14354
Total Tanks:	Not reported

CON EDISON (Continued) **S117067187**

Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004599288
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/17/2014
Trans1 Recv Date:	07/17/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/18/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004599288
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503635GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1

CON EDISON (Continued) **S117067187**

Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

Q62 **CON EDISON** **NY MANIFEST** **S117066260**
West **1456 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.168 mi.
885 ft. **Site 1 of 3 in cluster Q**

Relative:
Higher

Actual:
54 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004588950
Facility Status:	Not reported
Location Address 1:	1456 BRYANT AVE
Code:	BP
Location Address 2:	SB 1154
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004588950
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/08/2014
Trans1 Recv Date:	07/08/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/09/2014
Part A Recv Date:	Not reported

CON EDISON (Continued) **S117066260**

Part B Recv Date:	Not reported
Generator EPA ID:	NYP004588950
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503509GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	150
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

K63 **SERVICE BOX 2252** **NY Spills** **S104509832**
SE **1230 COLGATE AV** **N/A**
1/8-1/4 **BRONX, NY**
0.168 mi.
887 ft. **Site 7 of 7 in cluster K**

Relative:
Higher

Actual:
24 ft.

SPILLS:

Facility ID:	9912859
Facility Type:	ER
DER Facility ID:	137001
Site ID:	162355
DEC Region:	2
Spill Date:	2000-02-11
Spill Number/Closed Date:	9912859 / 2000-03-02
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SERVICE BOX 2252 (Continued) **S104509832**

SWIS:	0301
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	2000-02-11
CID:	211
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2000-02-11
Spill Record Last Update:	2000-05-22
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	STEVEN CRIBBIN
Contact Phone:	(212) 580-8576
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL CON ED E2 MIS REPORT 2/11/00 Oily sheen on approx. (100) gallons of water, Conduit plate 12-M indicates no sewer connection. 2/11/00 @12:00hrs. cleanup is in progress but will take longer than the two hours mentioned earlier, sheen is being soaked up with diapers. 2/11/00 @12:45 hrs. sheen in service box #2252 has been vleaned up (1) plastic bag of absorbant diapers was generated an dwill be disposed as industrial waste."
Remarks:	"sheen found on water - clean up in progress - con ed 129948"

Material:

Site ID:	162355
Operable Unit ID:	1087396
Operable Unit:	01
Material ID:	294724
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

O64 **CON EDISON** **NY MANIFEST** **S117737867**
North **1661 BOONE AVENUE F/O** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.169 mi.
893 ft. **Site 5 of 8 in cluster O**

Relative:
Higher

Actual:
34 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004685558
Facility Status:	Not reported
Location Address 1:	1661 BOONE AVENUE F/O
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004685558
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	10/28/2014
Trans1 Recv Date:	10/28/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/03/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004685558
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002564554GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S117737867**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

R65 **CON EDISON** **NY MANIFEST** **S117538195**
ESE **E 172 ST & WHEELER AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.172 mi.
906 ft. **Site 1 of 7 in cluster R**

Relative:
Higher

Actual:
36 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004708434
Facility Status:	Not reported
Location Address 1:	E 172 ST & WHEELER AV
Code:	BP
Location Address 2:	TM58
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004708434
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

CON EDISON (Continued) **S117538195**

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	12/18/2014
Trans1 Recv Date:	12/18/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004708434
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	001084672GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

R66 **NYNEX** **NY MANIFEST** **1009233942**
ESE **172ND ST & WHEELER AVE** **N/A**
1/8-1/4 **BRONX, NY 11201**
0.172 mi.
906 ft. **Site 2 of 7 in cluster R**

Relative:
Higher

Actual:
36 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP000923318
Facility Status:	Not reported
Location Address 1:	172ND ST & WHEELER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	11201
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP000923318
Mailing Name:	NYNEX
Mailing Contact:	SUSHMITA BISWAS
Mailing Address 1:	221 EAST 37TH ST
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10016
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2123387126

NY MANIFEST:

Document ID:	MIA4134011
Manifest Status:	K
seq:	Not reported
Year:	1996
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	01/25/1996
Trans1 Recv Date:	01/25/1996
Trans2 Recv Date:	01/25/1996
TSD Site Recv Date:	02/12/1996
Part A Recv Date:	/ /
Part B Recv Date:	02/26/1996
Generator EPA ID:	NYP000923318
Trans1 EPA ID:	NYD010951986
Trans2 EPA ID:	NYD046765574
TSDF ID 1:	MID096963194
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported

NYNEX (Continued) **1009233942**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00300
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

O67 **ADHESIVE PRODUCTS** **NY UST** **U001841578**
North **1660-1668 BOONE AVENUE** **NY CBS UST** **N/A**
1/8-1/4 **BRONX, NY 10400** **NY CBS**
0.172 mi.
906 ft. **Site 6 of 8 in cluster O**

Relative:
Higher

Actual:
31 ft.

UST:

Id/Status:	2-600688 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	594069.20768
UTM Y:	4520964.09109
Site Type:	Manufacturing (Other than Chemical)/Processing

Affiliation Records:

Site Id:	22668
Affiliation Type:	Facility Owner
Company Name:	MAURY & CATHLEEN MEDWICK,TRUSTEE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	MOSEMAN AVE,RD #2 MAPLE SHADE FARM
Address2:	Not reported
City:	KATONAH
State:	NY
Zip Code:	10536
Country Code:	001
Phone:	(914) 962-4362
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	22668
Affiliation Type:	Mail Contact
Company Name:	ENSI, INC.
Contact Type:	Not reported

ADHESIVE PRODUCTS (Continued) **U001841578**

Contact Name:	FRED VIRRAZZI
Address1:	194 AVENUE L
Address2:	Not reported
City:	NEWARK
State:	NJ
Zip Code:	07105
Country Code:	001
Phone:	(201) 589-0900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	22668
Affiliation Type:	Facility Operator
Company Name:	ADHESIVE PRODUCTS
Contact Type:	Not reported
Contact Name:	JEFF SILBERMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 366-4100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Site Id:	22668
Affiliation Type:	Emergency Contact
Company Name:	MAURY & CATHLEEN MEDWICK,TRUSTEE
Contact Type:	Not reported
Contact Name:	JEFF SILBERMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 366-4100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	2004-03-04

Tank Info:

Tank Number:	09
Tank ID:	43293
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	03/01/1942
Date Tank Closed:	04/01/1992
Registered:	True

ADHESIVE PRODUCTS (Continued) **U001841578**

Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground

Tank Number: 10
Tank ID: 43294
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 03/01/1942
Date Tank Closed: 04/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

Tank Number: 19
Tank ID: 43295

ADHESIVE PRODUCTS (Continued) **U001841578**

Tank Status:	Temporarily Out of Service
Material Name:	Temporarily Out of Service
Capacity Gallons:	275
Install Date:	03/01/1942
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground

Tank Number:	20
Tank ID:	43296
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	275
Install Date:	03/01/1942
Date Tank Closed:	04/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser

ADHESIVE PRODUCTS (Continued) **U001841578**

C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None

Tank Number: 27
Tank ID: 43297
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 5000
Install Date: 03/01/1942
Date Tank Closed: 04/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground

Tank Number: 28
Tank ID: 43298
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 03/01/1942
Date Tank Closed: 04/01/1992
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None

ADHESIVE PRODUCTS (Continued) **U001841578**

I00 - Overfill - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None

Tank Number:	29
Tank ID:	43299
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	275
Install Date:	03/01/1942
Date Tank Closed:	04/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	04/14/2017

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None

CBS UST:

Detail As of 1/1/2012:

Id/Status:	2-000246 / CLOSED IN PLACE
Facility Type:	MANUFACTURING
Facility Tel:	(212) 366-4100
Total Tanks:	0
Region:	STATE
ICS No:	Not reported
PBS No:	Not reported
MOSF No:	Not reported
SPDES No:	Not reported
Town:	NEW YORK CITY
Operator:	JEFF SILBERMANN
Emergency Contact:	JEFF SILBERMANN
Emergency Contact Phone:	(212) 366-4100
Certification Date:	03/31/1992

ADHESIVE PRODUCTS (Continued) **U001841578**

Expiration Date:	03/31/1994
Owner Name:	TRUST(CLAUSE FOURTH) LUCILLE MEDWICK S/B/O MAURY M
Owner Address:	MOSEMAN AVE., RD 2 MAPLE SHADE FARM
Owner City,St,Zip:	KATONAH, NY 10536
Owner Phone:	(914) 962-4362
Owner Type:	5
Owner Subtype:	Not reported
Mail To Name:	ENSI, INC.
Mail To Contact:	FRED VIRRAZZI
Mail To Address:	194 AVENUE L
Mail To Address 2:	Not reported
Mail To City,St,Zip:	NEWARK, NJ 07165
Mail To Telephone:	(201) 589-0900
Tank Number:	01
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Ethyl acetate
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	141786
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	12:59:16
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

ADHESIVE PRODUCTS (Continued) **U001841578**

Tank Number:	02
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Ethyl acetate
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	141786
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	12:59:29
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	05
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Methyl ethyl ketone
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	78933
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground

ADHESIVE PRODUCTS (Continued) **U001841578**

Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:00:12
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	06
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Methyl ethyl ketone
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	78933
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:00:24
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001

ADHESIVE PRODUCTS (Continued) **U001841578**

Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	13
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:01:09
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

ADHESIVE PRODUCTS (Continued) **U001841578**

Tank Number:	14
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:01:21
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	15
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground

ADHESIVE PRODUCTS (Continued) **U001841578**

Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:01:33
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	16
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:01:45
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001

ADHESIVE PRODUCTS (Continued) **U001841578**

Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	17
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:01:56
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

ADHESIVE PRODUCTS (Continued) **U001841578**

Tank Number:	18
Date Entered:	03/17/1992
Capacity:	550
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:02:30
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	21
Date Entered:	03/17/1992
Capacity:	1500
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground

ADHESIVE PRODUCTS (Continued) **U001841578**

Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:02:52
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	22
Date Entered:	03/17/1992
Capacity:	1500
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:03:06
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001

ADHESIVE PRODUCTS (Continued) **U001841578**

Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	23
Date Entered:	03/17/1992
Capacity:	1500
Chemical:	2-Propanone
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	67641
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:03:54
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

ADHESIVE PRODUCTS (Continued) **U001841578**

Tank Number:	24
Date Entered:	03/17/1992
Capacity:	1500
Chemical:	2-Propanone
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	67641
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:04:06
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	25
Date Entered:	03/17/1992
Capacity:	1500
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground

ADHESIVE PRODUCTS (Continued) **U001841578**

Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:04:49
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

Tank Number:	26
Date Entered:	03/17/1992
Capacity:	1500
Chemical:	Toluene
Tank Closed:	04/92
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	03/42
CAS No:	108883
Substance:	Single Hazardous Substance on DEC List
Tank Location:	Outdoors, Belowground
Tank Internal:	None
Tank External:	NONE
Pipe Location:	Underground
Pipe Internal:	None
Pipe External:	None
Leak Detection:	None
Secondary Containmentt:	None
Overfill Protection:	None
Haz Percent:	100
Pipe Containment:	None
Pipe Type:	STEEL/IRON
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	13:05:00
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001

ADHESIVE PRODUCTS (Continued) **U001841578**

Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	Not reported
Renew Date:	/ /
Deliquent:	False
Total Capacity:	0
Date Expired:	03/31/94
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	False

CBS:

CBS Number:	2-000246
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	594067.72547
UTMY:	4520954.86757

L68 **1534 BRYANT AVE/BRONX** **NY Spills** **S102142421**
NW **1534 BRYANT AVENUE** **N/A**
1/8-1/4 **NEW YORK CITY, NY**
0.172 mi.
907 ft. **Site 6 of 6 in cluster L**

Relative:
Higher

Actual:
61 ft.

SPILLS:

Facility ID:	8809969
Facility Type:	ER
DER Facility ID:	106059
Site ID:	122310
DEC Region:	2
Spill Date:	1989-03-27
Spill Number/Closed Date:	8809969 / 1989-08-01
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1989-03-27
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Fire Department
Cleanup Ceased:	1989-08-01
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1989-03-27
Spill Record Last Update:	1994-11-15
Spiller Name:	Not reported

1534 BRYANT AVE/BRONX (Continued) **S102142421**

Spiller Company:	MARTINEZ
Spiller Address:	1530 BRYANT AV
Spiller City,St,Zip:	BRONX, NY 10460
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	""
Remarks:	"OIL SEEPING OUT FROM RETAINING WALL HEADING TOWARDS 1530 BRYANT AVENUEINTO SEWER, NYCDEP SEWER DIVISION NOTIFIED."

Material:

Site ID:	122310
Operable Unit ID:	926018
Operable Unit:	01
Material ID:	451141
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

R69 **GARCIA RESIDENCE** **NY LTANKS** **S106868988**
East **1316 WHEELER AVENUE** **N/A**
1/8-1/4 **NEW YORK, NY**
0.173 mi.
914 ft. **Site 3 of 7 in cluster R**

Relative:
Higher

Actual:
41 ft.

LTANKS:

Site ID:	342581
Spill Number/Closed Date:	0413444 / 2005-05-27
Spill Date:	2005-03-26
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	0301
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	2005-03-26
CID:	72
Water Affected:	Not reported
Spill Notifier:	Citizen
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2005-03-28
Spill Record Last Update:	2005-05-27
Spiller Name:	MRS. GARCIA
Spiller Company:	GARCIA RESIDENCE

GARCIA RESIDENCE (Continued) **S106868988**

Spiller Address:	1316 WHEELER AVENUE
Spiller City,St,Zip:	NEW YORK, NY 10472
Spiller County:	001
Spiller Contact:	MRS. GARCIA
Spiller Phone:	(718) 861-4158
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	288930
DEC Memo:	"3/29/05-Vought-Spill contained before hitting concrete. No sewers or drains affected. Vought called Correa for status of tank repair and she called USA Tanks. Proposal sent to owner for tank replacement by USA Tank. Vought called Garcia and to leave message that for spill to be closed, copy of invoice must be received for AST replacement. Stuyvesant Fuel Oil will no longer make deliveries until AST is repaired. No answer of phone. Spill referred to DEC Rahman to send out letter requiring invoice of repair or replace. 03/29/05-SR// Sent a leaking tank repair letter. 04/18/05-SR//No reply received from the home owner. No body picks up the phone. USA tanks also unable to hold the owner. So, they sent a proposal for the repair work via mail. Need site inspection. 04/18/05-SR// Visited the site.Homwowner was not available and could not access the basement. 04/19/05-SR//After a series of attempt, homeowner Ms. Juan Garcia(718-861-4158) was found on the phone this evening. She informed about the possible repair work to be done by this week. "
Remarks:	"Homeowner noticed fuel oil leaking under 275 gallon oil tank in basement. Bucket was placed to catch spill. USA Tanks on scene, and will handle. No oil spilled onto basement floor. 1/2 gallon oil is in bucket."

Material:

Site ID:	342581
Operable Unit ID:	1101305
Operable Unit:	01
Material ID:	581453
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

S70
NNE
1/8-1/4
0.177 mi.
935 ft.

CON EDISON
1715 WEST FARM RD
BRONX, NY 10460

Site 1 of 2 in cluster S

NY MANIFEST **S117314206**
N/A

Relative:
Higher

Actual:
17 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004612487
Facility Status:	Not reported
Location Address 1:	1715 WEST FARM RD
Code:	BP
Location Address 2:	SB 22969
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004612487
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

T71
NNW
1/8-1/4
0.181 mi.
955 ft.

CON EDISON
1548 BRYANT AV
BRONX, NY 10461

Site 1 of 3 in cluster T

NY MANIFEST **S117066704**
N/A

Relative:
Higher

Actual:
60 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004593901
Facility Status:	Not reported
Location Address 1:	1548 BRYANT AV
Code:	BP
Location Address 2:	SB1770
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10461
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004593901
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003

CON EDISON (Continued) **S117066704**

Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/11/2014
Trans1 Recv Date:	07/11/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004593901
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503575GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	185
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

U72 **CON EDISON** **NJ MANIFEST** **S120671096**
WNW **1491 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.181 mi.
957 ft. **Site 1 of 4 in cluster U**

Relative:
Higher

Actual:
63 ft.

NJ MANIFEST:

EPA Id:	NYP004775029
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002660814GBF
EPA ID:	NYP004775029
Date Shipped:	4/27/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported

CON EDISON (Continued) **S120671096**

Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

U73 **CON EDISON** **NY MANIFEST** **S119074855**
WNW **1491 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.181 mi.
957 ft. **Site 2 of 4 in cluster U**

Relative:
Higher

Actual:
63 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004775029
Facility Status:	Not reported
Location Address 1:	F/O 1491 BRYANT AVE
Code:	BP
Location Address 2:	SB 1151
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004775029
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	04/27/2015
Trans1 Recv Date:	04/27/2015
Trans2 Recv Date:	04/28/2015
TSD Site Recv Date:	04/28/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004775029
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported

CON EDISON (Continued) **S119074855**

Manifest Tracking Number:	002660814GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional NY_MANIFEST: record(s) in the EDR Site Report.

U74 **CON EDISON** **NJ MANIFEST** **S120671097**
WNW **1481 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.182 mi.
961 ft. **Site 3 of 4 in cluster U**

Relative:
Higher

Actual:
63 ft.

NJ MANIFEST:

EPA Id:	NYP004775045
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

CON EDISON (Continued) **S120671097**

Manifest:

Manifest Number:	002660865GBF
EPA ID:	NYP004775045
Date Shipped:	4/27/2015
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

U75 **CON ED** **NY MANIFEST** **S119074857**
WNW **1481 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.182 mi.
961 ft. **Site 4 of 4 in cluster U**

Relative:
Higher

Actual:
63 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004775045
Facility Status:	Not reported
Location Address 1:	F/O 1481 BRYANT AVE
Code:	BP
Location Address 2:	SB 1150

CON ED (Continued) **S119074857**

Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004775045
Mailing Name:	CON ED
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE - 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	04/27/2015
Trans1 Recv Date:	04/27/2015
Trans2 Recv Date:	04/28/2015
TSD Site Recv Date:	04/28/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004775045
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002660865GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds

CON ED (Continued) **S119074857**

Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional NY_MANIFEST: record(s) in the EDR Site Report.

N76 **MANHOLE 17607** **NY Spills** **S106003712**
WSW **1431 LONGFELLOW AVE** **NY MANIFEST** **N/A**
1/8-1/4 **BRONX, NY**
0.185 mi.
975 ft. **Site 3 of 3 in cluster N**

Relative:
Higher

Actual:
61 ft.

SPILLS:

Facility ID:	0201783
Facility Type:	ER
DER Facility ID:	210833
Site ID:	257480
DEC Region:	2
Spill Date:	2002-05-18
Spill Number/Closed Date:	0201783 / 2002-06-07
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	2002-05-18
CID:	397
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-05-18
Spill Record Last Update:	2002-09-18
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was FOLEY Con Ed e2mis #142864: 18-MAY-2002 06:05 Flush Mech W. Silkowski #82003 reports that he responded to a emergency outage to assist

MANHOLE 17607 (Continued) **S106003712**

number nine when he observed ~ 2 gallons of unknown oil possibly from a car that was parked over the structure at the time that of the secondary burn out occurred. Environmental tag #32975 has been placed, and a sample has been taken. There was fire, and smoke involved and private property affected. There has been buildings evacuated at this location. How many is unknown at this time. 06:10 Astoria has no tanker. 06:15 Shift Manager has notified EH&S that the crew will be cutting all the mains that lead to the structure avoiding working in the unknown oil. 06:15 Chemist has been requested by Shift Manager T. Curley. 06:19 Chemist is being called in from home. 06:29 All State is in route to location. 18-MAY-2002 06:40 CIG Morris #85791 notified. Car that was involved in the incident is a 1986 Honda NYS licence plate #BRS-1355. 18-May-2002 07:30 Chemist was canceled, Flush Mech W. Silkowski will bring three samples out to chem lab to save time. Sample types taken. Oil ID, Flash point, and PCB. 18-May-2002 08:00 Update: There were six buildings involved in the evacuation, and all occupants were let back into the buildings at 06:30. 18-May-2002 09:15 Flush Mech E. Gafur #19528 reports All State Tanker on location. 09:25 EPA # requested from ERT S. Mahoney #86887. 09:30 EPA #NYP 004 098 471 generated. Update: Feeder number 4X55 OA at the time of this incident, and the fault is believed to be in this structure. 18-May-2002 10:00 Flush Mech W. Silkowski #82003 reports that the product in the structure was ignited by the faulty cable in the structure, and was extinguished by the FDNY. It appears that most of the product burnt off. Chem labs reports that the product is mostly water, and they will not be able to test for flash point. 18-May-2002 10:19 Flush Mech E. Gafur #19528 reports that clean up is complete at this time. All State Power Vac Tanker removed 600 gallons of unknown liquid the is being treated as 50-499 PCB. The structure was double washed by E. Gafur, and no solid waste other than a 4’ X 8 piece of wood which was drumed, and transported back to Van Nest in a Con Ed Van that is not normally used for this fuction. Clean up complete, and environmental tag is removed. 18-May-2002 11:20 Solid waste drum is not being transported to Van Nest, it will be picked up by Astoria Transportation. O.S. T. Tottora reported the there is no oil coming from the secondary, but the lead jacketed secondary is badly burnt. The waste is being treated as lead hazardous. 11:25 called Astoria for a drum pickup. 18-May-2002 14:00 Solid waste drum has been picked up. Page 1 of 1 5/18/2002 Consolidated Edison Environment, Health and Safety ChemLab NELAP NY Lab ID No: 10380 Lab Sequence Number: 02-04476-001 Date Approved: 5/18/2002 E2 Incident Number: 142864 Date Received: 5/18/2002 Chain of Custody ID: CC01259 Date Sampled: 5/18/2002 PCB Analysis by EPA 608/8082 MATRIX: WATER GRAB DESCRIPTION: WATER/OIL FROM MH#17607 LOCATION: F/O 1431 LONGFELLOW AVE STRUCTURE: MANHOLE 17607 FEEDER ID: QC ID: 01-200205120902 TEST DESCRIPTION RESULT UNIT METHOD Aroclor 1242 < 1.0 ppm EPA 608/8082 Aroclor 1254 < 1.0 ppm EPA 608/8082 Aroclor 1248 < 1.0 ppm EPA 608/8082 Aroclor 1260 < 1.0 ppm EPA 608/8082 THE DCB SURROGATE WAS OUT OF THE QC LIMITS. SINCE ALL OF THE SAMPLE WAS USED, RE-ANALYSIS WAS NOT POSSIBLE. THE REPORTED PCB VALUE IS THE MINIMUM AMOUNT DETECTED.FLASHPOINT WAS NOT RUN DUE TO NATURE OF THE SAMPLE-ALL WATER MATRIX. Approval Status: APPROVED Approved By: Edward Chin Title: SUPERVISOR --End of Report-- Search for Results at: http://q137lims/lims 18-May-2002 14:10 All waste from this structure both liquid, and solid are being disposed of as lead hazardous waste due to sample result that were received less than 1 ppm PCB that is the only known hazardous substance in the waste. "

MANHOLE 17607 (Continued) **S106003712**

Remarks: "caller states that there was a manhole fire. a car was parked on top of the manhole and the oil is poss from the veh. unk coned#142864"

Material:
Site ID: 257480
Operable Unit ID: 852762
Operable Unit: 01
Material ID: 523194
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: 2.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

NY MANIFEST:
Country: USA
EPA ID: NYP004098471
Facility Status: Not reported
Location Address 1: 1431 LONGFELLOW AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: Not reported
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004098471
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLIN MURRAY
Mailing Address 1: 4 IRVING PLACE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124602808

NY MANIFEST:
Document ID: CTF0964194
Manifest Status: Not reported
seq: 01
Year: 2002
Trans1 State ID: Not reported
Trans2 State ID: Not reported
Generator Ship Date: 05/18/2002
Trans1 Recv Date: 05/18/2002
Trans2 Recv Date: Not reported

MANHOLE 17607 (Continued) **S106003712**

TSD Site Recv Date:	05/28/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004098471
Trans1 EPA ID:	NJD003812047
Trans2 EPA ID:	Not reported
TSDF ID 1:	CTD002593887
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	01000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access
1 additional NY_MANIFEST: record(s) in the EDR Site Report.

Q77 **CON EDISON** **NY MANIFEST** **S118463336**
West **1465 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10456**
0.185 mi.
977 ft. **Site 2 of 3 in cluster Q**

Relative:
Higher

Actual:
62 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004850059
Facility Status:	Not reported
Location Address 1:	1465 BRYANT AVE
Code:	BP
Location Address 2:	SB 1149
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10456
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004850059

CON EDISON (Continued) **S118463336**

Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	10/08/2015
Trans1 Recv Date:	10/08/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/15/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004850059
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002661469GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported

CON EDISON (Continued) **S118463336**

Waste Code 1_5: Not reported
Waste Code 1_6: Not reported

Click this hyperlink while viewing on your computer to access
1 additional NY_MANIFEST: record(s) in the EDR Site Report.

V78 **CON EDISON** **NY MANIFEST** **S117318594**
ENE **1350 BRONX RIVER AV** **N/A**
1/8-1/4 **BRONX, NY 10473**
0.186 mi.
984 ft. **Site 1 of 2 in cluster V**

Relative:
Higher

Actual:
42 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004661518
Facility Status: Not reported
Location Address 1: 1350 BRONX RIVER AV
Code: BP
Location Address 2: SB1628
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10473
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004661518
Mailing Name: CON EDISON
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL
Mailing Address 2: 15TH FL
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 09/19/2014
Trans1 Recv Date: 09/19/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 09/19/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004661518
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NJD991291105
TSDF ID 2: Not reported
Manifest Tracking Number: 002563573GBF

CON EDISON (Continued) **S117318594**

Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

V79 **CON EDISON** **NY MANIFEST** **S117318154**
ENE **1350 BRONX RIVER AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.186 mi.
984 ft. **Site 2 of 2 in cluster V**

Relative:
Higher

Actual:
42 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004656542
Facility Status:	Not reported
Location Address 1:	1350 BRONX RIVER AV
Code:	BP
Location Address 2:	SB1636
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004656542
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL

CON EDISON (Continued) **S117318154**

Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	09/12/2014
Trans1 Recv Date:	09/12/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/15/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004656542
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563622GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

CON EDISON (Continued) **S117318154**

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

P80 **CON EDISON** **NY MANIFEST** **S117318155**
SE **1236 EVERGREEN AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.186 mi.
984 ft. **Site 2 of 3 in cluster P**

Relative:
Higher

Actual:
26 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004656567
Facility Status:	Not reported
Location Address 1:	1236 EVERGREEN AV
Code:	BP
Location Address 2:	SB3599
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004656567
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	09/12/2014
Trans1 Recv Date:	09/12/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/15/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004656567
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563620GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N

CON EDISON (Continued) **S117318155**

Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	800
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

P81 **CON EDISON** **NY MANIFEST** **S117316573**
SE **1236 EVERGREEN AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.186 mi.
984 ft. **Site 3 of 3 in cluster P**

Relative:
Higher

Actual:
26 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004638474
Facility Status:	Not reported
Location Address 1:	1236 EVERGREEN AV
Code:	BP
Location Address 2:	SB3599
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004638474
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY

CON EDISON (Continued) **S117316573**

Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/25/2014
Trans1 Recv Date:	08/25/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/28/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004638474
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563021GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

O82 **J KAUFMAN IRON WORKS INC** **RCRA NonGen / NLR** **1004762794**
North **1685 BOONE AVE** **FINDS** **NYR000100537**
1/8-1/4 **BRONX, NY 10460** **ECHO**
0.188 mi. **NY E DESIGNATION**
994 ft. **Site 7 of 8 in cluster O** **NY MANIFEST**

Relative:
Higher

Actual:
36 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	J KAUFMAN IRON WORKS INC
Facility address:	1685 BOONE AVE BRONX, NY 10460
EPA ID:	NYR000100537
Mailing address:	GODWIN AVE PATERSON, NY 07501
Contact:	LARRY KAUFMAN
Contact address:	GODWIN AVE PATERSON, NY 07501
Contact country:	US
Contact telephone:	718-991-5400
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	JRWB REALTY
Owner/operator address:	217 GODWIN AVE PATERSON, NJ 07501
Owner/operator country:	US
Owner/operator telephone:	973-925-9972
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/2001
Owner/Op end date:	Not reported

Owner/operator name:	JRWB REALTY
Owner/operator address:	217 GODWIN AVE PATERSON, NJ 07501
Owner/operator country:	US
Owner/operator telephone:	973-925-9972
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2001
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

J KAUFMAN IRON WORKS INC (Continued) **1004762794**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: J KAUFMAN IRON WORKS INC
Classification: Not a generator, verified

Date form received by agency: 09/05/2001
Site name: J KAUFMAN IRON WORKS INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110012206889

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004762794
Registry ID: 110012206889
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110012206889

E DESIGNATION:
Tax Lot(s): 40
Tax Block: 3010
Borough Code: Not reported
E-No: E-277
Effective Date: 10/5/2011
Satisfaction Date: Not reported
Ceqr Number: 10DCP017X
Ulurp Number: 100310ZMX
Zoning Map No: 3d

J KAUFMAN IRON WORKS INC (Continued) **1004762794**

Description: Hazardous Materials* Phase I and Phase II Testing Protocol
Lot Remediation Date: Not reported

Description: Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date: Not reported

Description: Air Quality - #2 Fuel Oil or Natural Gas for heating, ventilating and air conditioning systems
Lot Remediation Date: Not reported

Description: Exhaust stack location limitations
Lot Remediation Date: Not reported

NY MANIFEST:
Country: USA
EPA ID: NYR000100537
Facility Status: Not reported
Location Address 1: 1685 BOONE AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10460
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYR000100537
Mailing Name: KAUFMAN IRON WORKS
Mailing Contact: L H JOSEPH
Mailing Address 1: 1685 BOONE AVE
Mailing Address 2: Not reported
Mailing City: BRONX
Mailing State: NY
Mailing Zip: 10460
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 7189915400

NY MANIFEST:
Document ID: NJA4007445
Manifest Status: Not reported
seq: 01
Year: 2001
Trans1 State ID: 08690
Trans2 State ID: Not reported
Generator Ship Date: 10/04/2001
Trans1 Recv Date: 10/04/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/17/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000100537
Trans1 EPA ID: SCR000075150
Trans2 EPA ID: Not reported
TSDF ID 1: NJD002182897
TSDF ID 2: Not reported

J KAUFMAN IRON WORKS INC (Continued) **1004762794**

Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	F003 - UNKNOWN
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	03234
Units:	P - Pounds
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access
1 additional NY_MANIFEST: record(s) in the EDR Site Report.

T83 **CON EDISON** **NY MANIFEST** **S107783226**
NNW **1558 BRYANT AV** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.189 mi.
996 ft. **Site 2 of 3 in cluster T**

Relative:
Higher

Actual:
60 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004623005
Facility Status:	Not reported
Location Address 1:	1558 BRYANT AV
Code:	BP
Location Address 2:	SB1171
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004623005
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported

CON EDISON (Continued) **S107783226**

Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/08/2014
Trans1 Recv Date:	08/08/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/12/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004623005
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002562356GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	250
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

W84 **CON EDISON** **NY MANIFEST** **S117316991**
East **1327 ELDER AVE** **N/A**
1/8-1/4 **BRONX, NY 10462**
0.189 mi.
999 ft. **Site 1 of 2 in cluster W**

Relative:
Higher

Actual:
49 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004643268
Facility Status:	Not reported
Location Address 1:	1327 ELDER AVE
Code:	BP
Location Address 2:	SB 19352
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10462
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004643268
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE - 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/29/2014
Trans1 Recv Date:	08/29/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/03/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004643268
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002562894GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S117316991**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	300
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

W85 **CON EDISON** **NY MANIFEST** **S117318648**
East **1323 ELDER AV** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.190 mi.
1003 ft. **Site 2 of 2 in cluster W**

Relative:
Higher

Actual:
50 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004662086
Facility Status:	Not reported
Location Address 1:	1323 ELDER AV
Code:	BP
Location Address 2:	SB17352
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004662086
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

CON EDISON (Continued) **S117318648**

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	09/19/2014
Trans1 Recv Date:	09/19/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/23/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004662086
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002563470GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

X86 **LETTERA SIGN & ELECTRIC CO INC** **RCRA-SQG** **1000393855**
SSE **1209 BRONX RIVER AVE** **NY MANIFEST** **NYD001345529**
1/8-1/4 **BRONX, NY 10472**
0.190 mi.
1004 ft. **Site 1 of 11 in cluster X**

Relative:
Higher

Actual:
20 ft.

RCRA-SQG:

Date form received by agency:	01/01/2007
Facility name:	LETTERA SIGN & ELECTRIC CO INC
Facility address:	1209 BRONX RIVER AVE BRONX, NY 10472
EPA ID:	NYD001345529
Mailing address:	BRONX RIVER AVE BRONX, NY 10472
Contact:	Not reported
Contact address:	BRONX RIVER AVE BRONX, NY 10472
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	WEST SIDE NEON SIGN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	WEST SIDE NEON SIGN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	212-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

LETTERA SIGN & ELECTRIC CO INC (Continued) **1000393855**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: LETTERA SIGN & ELECTRIC CO INC
Classification: Small Quantity Generator

Date form received by agency: 03/24/1995
Site name: LETTERA SIGN & ELECTRIC CO INC
Classification: Not a generator, verified

Date form received by agency: 07/10/1987
Site name: LETTERA SIGN & ELECTRIC CO INC
Classification: Small Quantity Generator

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/19/1991
Date achieved compliance: 05/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

LETTERA SIGN & ELECTRIC CO INC (Continued) **1000393855**

Evaluation Action Summary:
Evaluation date: 03/14/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/13/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/03/1995
Evaluation lead agency: State

NY MANIFEST:
Country: USA
EPA ID: NYP004671046
Facility Status: Not reported
Location Address 1: 1209 BRONX RIVER AVE
Code: BP
Location Address 2: TM 40
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10472
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004671046
Mailing Name: CON ED
Mailing Contact: TOM TEELING
Mailing Address 1: 4 IRVING PLACE
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124603770

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJ0000027193
Trans2 State ID: Not reported
Generator Ship Date: 10/02/2014
Trans1 Recv Date: 10/02/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/03/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004671046
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NJD002200046
TSDF ID 2: Not reported

LETTERA SIGN & ELECTRIC CO INC (Continued) **1000393855**

Manifest Tracking Number:	013255752JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	2000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

Country:	USA
EPA ID:	NYD001345529
Facility Status:	Not reported
Location Address 1:	1209 BRONX RIVER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD001345529
Mailing Name:	INFINITY SIGN & ELECTRIC (FORMER LETTERA)
Mailing Contact:	MICHAEL LETTERA
Mailing Address 1:	1209 BRONX RIVER AVENUE
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10472
Mailing Zip 4:	Not reported
Mailing Country:	USA

LETTERA SIGN & ELECTRIC CO INC (Continued) **1000393855**

Mailing Phone: 7189911000

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	CT5000001495
Trans2 State ID:	Not reported
Generator Ship Date:	02/25/2015
Trans1 Recv Date:	02/25/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/25/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD001345529
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	CT5000001495
TSDF ID 2:	Not reported
Manifest Tracking Number:	014040008JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	Y
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H010
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	786
Units:	P - Pounds
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Waste Code:	D009
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
48 additional NY_MANIFEST: record(s) in the EDR Site Report.

Q87
West
1/8-1/4
0.194 mi.
1022 ft.

CON EDISON
1455 BRYANT AVE
BRONX, NY

Site 3 of 3 in cluster Q

NY MANIFEST **S117535767**
N/A

Relative:
Higher

Actual:
58 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004681326
Facility Status:	Not reported
Location Address 1:	1455 BRYANT AVE
Code:	BP
Location Address 2:	SB 1148
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004681326
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	10/21/2014
Trans1 Recv Date:	10/21/2014
Trans2 Recv Date:	10/28/2014
TSD Site Recv Date:	10/28/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004681326
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002564490GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S117535767**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	1000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

X88 **NYC HUMAN RESOURCES** **NY Spills** **S102560528**
SSE **1209 COLGATE AVENUE** **N/A**
1/8-1/4 **BRONX, NY**
0.194 mi.
1024 ft. **Site 2 of 11 in cluster X**

Relative:
Higher

Actual:
22 ft.

SPILLS:

Facility ID:	9712845
Facility Type:	ER
DER Facility ID:	119911
Site ID:	140405
DEC Region:	2
Spill Date:	1998-02-18
Spill Number/Closed Date:	9712845 / 1998-02-18
Spill Cause:	Unknown
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1998-02-18
CID:	266
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-02-18

NYC HUMAN RESOURCES (Continued) **S102560528**

Spill Record Last Update:	1998-02-18
Spiller Name:	Not reported
Spiller Company:	GETTY GAS STATION
Spiller Address:	BRONX RIVER AV & WESTCHES
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	BARBARA QUINLAN
Contact Phone:	(718) 589-2002
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE REFER TO 97-00109. SEE ALSO 97-04954 & 95-04305. "
Remarks:	"ONGOING PROBLEM. EVERYTIME IT RAINS, FUMES ENTER BUILDING THROUGH BASEMENT. CALLER STATES THAT DEC HAS BEEN NOTIFIED OF THIS BEFORE. CALLER ADVISED TO CALL FIRE DEPARTMENT IF ANYONE BECOMES SICK THERE."

Material:

Site ID:	140405
Operable Unit ID:	1055696
Operable Unit:	01
Material ID:	327430
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	9704954
Facility Type:	ER
DER Facility ID:	69997
Site ID:	74617
DEC Region:	2
Spill Date:	1997-07-25
Spill Number/Closed Date:	9704954 / 1997-11-19
Spill Cause:	Unknown
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1997-07-25
CID:	369
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1997-07-25

NYC HUMAN RESOURCES (Continued) **S102560528**

Spill Record Last Update:	1998-02-18
Spiller Name:	UNKNOWN
Spiller Company:	GAS STATION NEXT DOOR TO
Spiller Address:	1209 COLGATE AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MRS QUINLAN
Contact Phone:	(718) 589-2064
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE GETTY GAS STATION, REFER TO 97-00109. SEE ALSO 97-12845 & 95-04305. "
Remarks:	"FD EVACUATED HUD HOUSING PROJECT YESTERDAY FOR SAME PROBLEM-SMELL OF GASOLINE IS COMING THROUGH BASEMENT WALL-CALLER STATES IT IS COMING FROM GAS STATION NEXT DOOR-NO ADRESS OR PHONE FOR IT"

Material:

Site ID:	74617
Operable Unit ID:	1048333
Operable Unit:	01
Material ID:	334190
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	9700109
Facility Type:	ER
DER Facility ID:	301694
Site ID:	74616
DEC Region:	2
Spill Date:	1997-04-02
Spill Number/Closed Date:	9700109 / 2012-09-25
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	KGHALE
Referred To:	DPES SHUTDOWN 12/2006, NEED LOWER BENZENE LEVEL
Reported to Dept:	1997-04-02
CID:	370
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Fire Department
Cleanup Ceased:	1998-01-06
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0

NYC HUMAN RESOURCES (Continued) **S102560528**

Date Entered In Computer: 1997-04-02
Spill Record Last Update: 2012-09-25
Spiller Name: Not reported
Spiller Company: GAS STATION NEXT DOOR
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: ABOVE
Contact Phone: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT SEE ALSO 97-04954 & 97-12845 & 95-04305. CHANGE DEC INVESTIGATOR TO VOUGHT 3/27/03 REASSIGNED FROM ROMMEL TO VOUGHT. 10/20/2005 - case reviewed by Feng: Received a complaint of gasoline vapors at 1209 Colgate Ave in Bronx (97-00109). Getty service station located next door @ 1441 Westchester ave, had a tank overfill. This gasoline traveled underground into the basement of 1209 Colgate Ave. This overfill compounded an existing soil and groundwater problem from the former gasonline tanks (#95-04305). STIP on January 6, 1998. by sighing this STIP, Getty takes the responsiblity of cleanup of 1209 Colgate Ave contamination. Dual Phase Extraction System has been on to address the contamination. Quarterly Monitoring Report, 3/2005 - 5/2005. Quarterly gauging and sampling. groundwater flow in west direction. 20 monitoring wells onsite. BTEX and MTBE in low concentration, such as 93.39ppb BTEX and 37.4ppb MTBE in W-1 (12.16' bg). 11/16/2006 - Feng - Quarterly Monitoring Report, 5/2006 - 7/2006, 7/2006, by Tyree. Active gasoline retail/service station. Groundwater sampled and gauged 7/3/2006. 20 monitoring wells. DTW 10.70' to 14.55' bg. Flow direction west. No LNAPL. BTEX range ND to 680.7 ppb (MW-4). MTBE range ND to 16.4 ppb (MW-6). Monthly inspection of the air stripper system and the SVE system. No effluent samples taken this quarter until system fixed. (RJF) 11/17/2006 - Feng - Quarterly Monitoring Report, 8/2006 - 10/2006, 10/2006, by Tyree. Active gasoline retail/service station. Groundwater sampled and gauged 10/18/2006. 20 monitoring wells. DTW 9.07' to 14.75' bg. Flow direction west. No LNAPL. BTEX range ND to 662.1 ppb (MW-4). MTBE range ND to 18.2 ppb (MW-6). 1/18/2007 - Feng - Getty Properties portfolio meeting with Tyree and Delta. System shutdown 12/2006 and quarterly monitoring for 2007. (RJF) 2/22/2007 - Feng - Quarterly Monitoring Report, 10/2006 - 1/2007, 1/2007, by Tyree. Active gasoline retail/service station. Groundwater sampled and gauged 1/2/2007. 20 monitoring wells. DTW 9.20' to 13.17' bg. Flows westerly. No LNAPL. MW-1, BTEX BDL, 4.2 ppb MTBE. MW-2, 11.99 ppb BTEX, 2.4 ppb MTBE. MW-3, BTEX BDL, 3.1 ppb MTBE. MW-4, 511.3 ppb BTEX, 21.1 ppb MTBE. MW-5, 125.2 ppb BTEX, 18.9 ppb MTBE. MW-6, 270.7 ppb BTEX, 19 ppb MTBE. MW-7, BDL. MW-8, BTEX BDL, 1.4 ppb MTBE. MW-9, 0.52 ppb BTEX, 1.9 ppb MTBE. MW-10, BTEX BDL, 0.85 ppb MTBE. MW-11, 52.95 ppb BTEX, 15.1 ppb MTBE. MW-12, BDL. MW-13, BTEX BDL, 12 ppb MTBE. MW-14, BDL. MW-15, 77 ppb BTEX, 10.2 ppb MTBE. MW-16, BTEX BDL, 8.98 ppb MTBE. MW-17, BTEX BDL, 0.66 ppb MTBE. MW-18, BTEX BDL, 3.5 ppb MTBE. GPW-1, not sampled. GPW-2, BTEX BDL, 7 ppb MTBE. (RJF) 7/3/2007 - Feng - Quarterly Monitoring Report, 2/2007 - 5/2007, 5/2007. Groundwater sampled 4/26/2007. 20 monitoring wells. DTW 9.63' to 12.5' bg. Flows to west. No LNAPL. BTEX range ND to 144.67 ppb (MW-4). MTBE range ND to 18.9 ppb (MW-5). (RJF) 9/28/2007 - Feng - Quarterly Monitoring Report, 5/2007 - 7/2007, 7/2007. Groundwater sampled 7/23/2007. 20 monitoring wells. DTW 8.96' to 14.59' bg. Flows to west. No LNAPL. MW-4, 384.6 ppb BTEX, 8.3 ppb MTBE. MW-5, 48.9 ppb

NYC HUMAN RESOURCES (Continued) **S102560528**

BTEX, 6.9 ppb MTBE. MW-6, 193.3 ppb BTEX, 11.7 ppb MTBE. The other wells are BDL or low. (RJF) 10/2/2007 - Feng - Sensitive Receptor Survey, 7/20/2007. Tyree requested spill closure. The dual phase extraction system was shutdown 12/2006. It needs 8 quarters of monitoring after the remedial system is shutdown. Groundwater concentration is fluctuating in MW-4. Spill closure denied. (RJF) 11/8/2007 - Feng - Portfolio meeting with Delta and Tyree. The benzene level is still high as indicated in the quarterly report. Need to reduce the benzene level for closure. (RJF) 1/23/2008 - Feng - Quarterly Monitoring Report, 8/2007 - 10/2007, 10/2007. Active gasline retail/service station. Groundwater gauged and sampled 10/9/2007. 20 monitoring wells. DTW 9.61' to 13' bg. Flows to west. No LNAPL. BTEX range ND to 363.1 ppb (MW-4). MTBE range ND to 48.7 ppb (MW-3). (RJF) 5/14/2008 - Feng - Quarterly Monitoring Report, 11/2007 - 1/2008, 3/2008. Active gasoline retail/service station. Groundwater was gauged and sampled 1/16/2008. 20 monitoring wells. DTW 9.00' to 14.64' bg. Flows to west. No LNAPL. BTEX range ND to 403.4 ppb (MW-4). MTBE range ND to 9.6 ppb. (RJF) 7/11/2008 - 2Q2008, 2/2008 - 5/2008, 5/2008. Active gasoline retail service station. Groundwater was gauged and sampled 4/23/2008. 20 monitoring wells. DTW 9.93' to 14.16' bg. Flows to west. No LNAPL. BTEX range ND to 472 ppb (MW-4). MTBE range ND to 22 ppb (MW-3). Email to Tyree for additional remediation to address the benzene problem. (RJF) 9/4/2008 - Getty Properties portfolio meeting with Tyree and Delta. Need to bring down the benzene level for closure. Will put borings in the historical contaminated area. Petition plan for closure by 1Q2009. (RJF) 1/6/2009 - Getty Properties portfolio meeting with Tyree and Delta. Closure petition plan by 3/2009. (RJF) 4/20/2009 - Quarterly Monitoring Report, 6/2008 - 8/2008, 9/2008, by Tyree. Active gasoline retail service station. Groundwater was gauged and sampled 7/31/2008. 20 monitoring wells. DTW 9.34' to 14.72' bg. Flows to west. NO LNAPL> BTEX range ND to 362 ppb (W-4). MTBE range ND to 49.2 ppb (W-3). System turned off as of December 2006 due to low effluent levels and low groundwater levels. (RJF) 4/23/2009 - Reviewed Investigation Work Plan, dated 3/20/2009, by Tyree. Tyree proposed 3 soil borings. DEC provided comments on the work plan and email to Tyree. see eDocs. Revision due 5/23/2009. (RJF) 6/8/2009 - Reviewed Investigation Work Plan revision, dated 5/6/2009, by Tyree. Tyree proposed 8 soil borings, will run STARS for every borings, and run TCLP for 3 soil borings. Work plan is approved. Investigation Report due within 90 days of the approval, 9/8/2009. (RJF) 6/18/2009 - Quarterly Monitoring Report, 1/2009 - 3/2009, 5/2009, pdf via email, by Tyree. Active gasoline retail service station. Monthly gauging and quarterly sampling. Groundwater was sampled 3/27/2009. 20 monitoring wells. DTW 9.73' (MW-18) to 14.34' (MW-16) bgs. Flows to west. NO LNAPL. BTEX range ND to 312.5 ppb (MW-4), residual mainly is benzene. MTBE range ND to 44.7 ppb (MW-3). System turned off as of 12/2006 due to low effluent levels and low groundwater levels. (RJF) 2/1/2012 - KGH meets with R2 staff to discuss Getty Bankruptcy Case and closure petitions. Consensus of senior staff is that Spill # 97-00109 has been cleaned-up significantly and it is appropriate to consider closure 9/25/2012 - 2/8/12 - KGH - Vapor impacts to neighboring buildings first grought this site to DEC attention. This was quickly resolved by NYFD & DEC Spills Unit. Inaccesible residual soil contamination may remain beneath this active retail station but will biodegrade over time and present no off-site impacts. GW concentrations have steadily decreased and have remained beneath 0.25

NYC HUMAN RESOURCES (Continued) **S102560528**

ppm Total BTEX for several years. The Department is requiring No Further Action at this time. Spill is being closed as currently Not Meeting Standards. Additional data may be submitted in the future for consideration of an upgrade in closure status. NFA"

Remarks: "FIRE DEPT HAZ MAT TEAM THINKS THERE IS A LEAK IN AN UNDERGROUND TANK - THEY REQ A REP FROM DEC TO RESPOND"

Material:

Site ID:	74616
Operable Unit ID:	1042824
Operable Unit:	01
Material ID:	336721
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

S89 **SPILL NUMBER 0107623** **NY Spills** **S105234819**
North **1700 BOONE AVE/174TH ST** **N/A**
1/8-1/4 **BRONX, NY**
0.195 mi.
1029 ft. **Site 2 of 2 in cluster S**

Relative:
Higher

Actual:
31 ft.

SPILLS:

Facility ID:	0107623
Facility Type:	ER
DER Facility ID:	234479
Site ID:	289585
DEC Region:	2
Spill Date:	2001-10-01
Spill Number/Closed Date:	0107623 / 2001-10-25
Spill Cause:	Abandoned Drums
Spill Class:	No spill occured. No DEC Response. No corrective action required.
SWIS:	0301
Investigator:	RMCROSSE
Referred To:	Not reported
Reported to Dept:	2001-10-25
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-10-25
Spill Record Last Update:	2001-10-25
Spiller Name:	Not reported

SPILL NUMBER 0107623 (Continued) **S105234819**

Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	CARL RUSSOMANNO
Contact Phone:	(718) 991-8100
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was CROSSEN CROSSEN/FILE DUPLICATE OF 0107083 CLOSE OUT"
Remarks:	"states 7 or 8 drums on the corner - within a 10-20 feet area apparantly dep aware - caller states materials were tested about 3 wks ago DUPLICATE OF 0107083 "

Material:

Site ID:	289585
Operable Unit ID:	845728
Operable Unit:	01
Material ID:	532441
Material Code:	0063A
Material Name:	unknown hazardous material
Case No.:	Not reported
Material FA:	Hazardous Material
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported
Site ID:	289585
Operable Unit ID:	845728
Operable Unit:	01
Material ID:	532442
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

R90 **SPILL NUMBER 9912609** **NY Spills** **S104650253**
ESE **1508 EAST 172ND ST** **N/A**
1/8-1/4 **BRONX, NY**
0.199 mi.
1049 ft. **Site 4 of 7 in cluster R**

Relative:
Higher

Actual:
39 ft.

SPILLS:

Facility ID:	9912609
Facility Type:	ER
DER Facility ID:	117112
Site ID:	136877
DEC Region:	2
Spill Date:	2000-02-04
Spill Number/Closed Date:	9912609 / 2003-02-26
Spill Cause:	Human Error

SPILL NUMBER 9912609 (Continued) **S104650253**

Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2000-02-04
CID:	211
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2000-02-04
Spill Record Last Update:	2003-02-26
Spiller Name:	DAN SILVESTRO
Spiller Company:	ATLAS FUEL OIL CORP
Spiller Address:	1110 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY 10472-
Spiller Company:	001
Contact Name:	DAN SILVESTRO
Contact Phone:	(718) 893-4400
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND "
Remarks:	"SPILL CAME OUT VENT AFTER DRIVER HOOKED UP TO WRONG SITE - CLEAN UP IN PROGRESS"

Material:

Site ID:	136877
Operable Unit ID:	1091306
Operable Unit:	01
Material ID:	566235
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Y91 **CON EDISON** **NY MANIFEST** **S117066261**
WSW **1432 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.199 mi.
1052 ft. **Site 1 of 2 in cluster Y**

Relative:
Higher

Actual:
61 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004588968
Facility Status:	Not reported
Location Address 1:	1432 BRYANT AVE
Code:	BP
Location Address 2:	SB 1143
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004588968
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/08/2014
Trans1 Recv Date:	07/08/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/09/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004588968
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503514GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S117066261**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

R92 **SPILL NUMBER 0011458** **NY LTANKS** **S104950562**
ESE **1256 WHEELER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.199 mi.
1052 ft. **Site 5 of 7 in cluster R**

Relative:
Higher

Actual:
29 ft.

LTANKS:

Site ID:	157591
Spill Number/Closed Date:	0011458 / 2004-05-03
Spill Date:	2000-12-21
Spill Cause:	Tank Overfill
Spill Source:	Tank Truck
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	0301
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	2001-01-23
CID:	207
Water Affected:	Not reported
Spill Notifier:	Citizen
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2001-01-23
Spill Record Last Update:	2004-05-03
Spiller Name:	Not reported
Spiller Company:	EDGEWOOD OIL
Spiller Address:	106 EDGEWOOD AVE

SPILL NUMBER 0011458 (Continued) **S104950562**

Spiller City,St,Zip:	YONKERS, NY 10704-
Spiller County:	001
Spiller Contact:	CEDRIC FREEMAN
Spiller Phone:	(718) 617-4945
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	133250
DEC Memo:	""
Remarks:	"Caller states this spill went unreported by the oil co. and they did nothing re: cleanup - product spilled outside residence and some leaked inside - sand applied but no real cleanup to date"

Material:

Site ID:	157591
Operable Unit ID:	832851
Operable Unit:	01
Material ID:	541768
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

O93 **CON EDISON** **NY MANIFEST** **S117066722**
North **1670 LONG FELLOW AV** **N/A**
1/8-1/4 **BRONX, NY 10461**
0.200 mi.
1055 ft. **Site 8 of 8 in cluster O**

Relative:
Higher

Actual:
47 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004594099
Facility Status:	Not reported
Location Address 1:	1670 LONG FELLOW AV
Code:	BP
Location Address 2:	SB17642
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10461
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004594099
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY

CON EDISON (Continued) **S117066722**

Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/11/2014
Trans1 Recv Date:	07/11/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004594099
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002502406GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

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T94 **APT BLDG** **NY Spills** **S109415615**
NNW **1555 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.202 mi.
1065 ft. **Site 3 of 3 in cluster T**

Relative:
Higher

Actual:
62 ft.

SPILLS:

Facility ID:	0812688
Facility Type:	ER
DER Facility ID:	359550
Site ID:	410321
DEC Region:	2
Spill Date:	2009-02-20
Spill Number/Closed Date:	0812688 / 2013-06-14
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2009-02-20
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-02-20
Spill Record Last Update:	2013-06-14
Spiller Name:	CARMEN IGLESIAS
Spiller Company:	CHEROKEE PARTNERS
Spiller Address:	1555 BRYANT AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	SUNSHINE MINI MART
Contact Phone:	(917) 299-7257
DEC Memo:	"DECPiper responded to site. upon arrival Eastmond was completing pumping any liquid product though only sludge was left in the tank. The tank had 3500 gal. The tank is above ground vaulted with debris surrounding it. The floor wasnt solid as oil was observed dripping out of a retaining wall of the adjacent building approx 15' from the edge of the subject buildiing. This area is a raised alley as topography is sloped. I left message for Carmen that Eastmond should return Sat as alot of oil is still missing. 2/23/09- I spoke with Lisete of Eastmond. They were there on Sat bbreaking the containment wall and will continue to remove debris today. There is alot of debris around tank that needs to be reoved. ie- sheet rock, concrete pieces, garbage, wood. 5/7/ 2009- DECPiper received call from eastmond stating they have removed temporary fill due to non payment and observed that old leaking fill was reconnected. N other required work was completed. Cherokee Partners- 718- 798- 4900 Victor Fein 718- 652- 4241 fax Due to non payment, Eastmond removed temporary fill. don Carlo hired to cleanup remainder of spill. Digging out tank and alleyway. Texie- 718-857-3100 6/14/13- DEC Piper reviewed closure and supplemental closure report. Based on work to date, this spill is

APT BLDG (Continued) **S109415615**

closed. See edocs if warranted. "
Remarks: "CALLER STATES THAT THE TANK HAS A CRACK IN IT ABOUT 3000 GALLONS SPILLED TO THE VAULT. PRODUCT IS IN THE BASEMENT, IN THE FOUNDATION AND IN THE NEXT PROPERTY. PRODUCT IS ALSO ENTERING THE SEWER."

Material:
Site ID: 410321
Operable Unit ID: 1166811
Operable Unit: 01
Material ID: 2158317
Material Code: 0002A
Material Name: #4 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 3000.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Z95 **MANHOLE 495** **NY Spills** **S104283150**
SW **WEST FARM RD/ FREEDMAN ST** **N/A**
1/8-1/4 **BRONX, NY**
0.204 mi.
1079 ft. **Site 1 of 5 in cluster Z**

Relative: Higher

Actual: 49 ft.

SPILLS:
Facility ID: 9908693
Facility Type: ER
DER Facility ID: 241638
Site ID: 298677
DEC Region: 2
Spill Date: 1999-10-18
Spill Number/Closed Date: 9908693 / 2002-02-22
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: COMENALE
Referred To: Not reported
Reported to Dept: 1999-10-18
CID: 382
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1999-10-18
Spill Record Last Update: 2002-02-22
Spiller Name: Not reported
Spiller Company: UNKNOWN

MANHOLE 495 (Continued) **S104283150**

Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	STEVEN CRIBBIN
Contact Phone:	(212) 580-8576
DEC Memo:	""
Remarks:	"2 gals of oil found ontop of the transformer. clean up pending lab results. con ed 128-499"

Material:

Site ID:	298677
Operable Unit ID:	1082979
Operable Unit:	01
Material ID:	297800
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

X96 **BRONX RIVER** **NY Spills** **S104879841**
South **WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.205 mi.
1080 ft. **Site 3 of 11 in cluster X**

Relative:
Lower

Actual:
1 ft.

SPILLS:

Facility ID:	0008407
Facility Type:	ER
DER Facility ID:	262178
Site ID:	325485
DEC Region:	2
Spill Date:	2000-10-18
Spill Number/Closed Date:	0008407 / 2005-05-03
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2000-10-18
CID:	205
Water Affected:	BRONX WATER
Spill Source:	Unknown
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0

BRONX RIVER (Continued) **S104879841**

Date Entered In Computer:	2000-10-18
Spill Record Last Update:	2006-07-05
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND A citizen called in a spill (#0008407)on the Bronx River, just south of Westchester Ave along the west side bulkhead of an abandoned cement plant. Sangesland responded to the site and did NOT see any sheen on the river. Sangesland reported the spill to the USCG. Since Sangesland was headed out to the site, the USCG was short staffed and asked for a site report. Once at the site, Sangesland called the USCG back and said no spill was seen. At the site, was a crew (15 people) from the NYC Parks Dept. who were cleaning up the lot and water's edge. Mr. Brian Aucoin (718-430-18) a Conservation Specialist with the Parks Dept. explained that the city got special funding to fight the West Nile Problem and they were removing several hundred old tires from the shore area and generally cleaning the site up. To prevent any garbage from floating downstream, the NYC DEP set up a boom across the river which is cleared frequently. In addition to the garbage/tire issue, there was a break in the water main (to the on site fire hydrants) which was flooding the site and could have flushed out some surface contamination onto the river. DEP has been notified and they are trying to isolate and fix the line. On the property Sangesland found 5 aboveground petroleum storage tanks which were abandoned when the cement plant was abandoned. They all appeared to be empty for quite some time with no signs of contamination around them. They are all closed (no rainwater going in) and all appeared to be secure. The Parks Dept person said this whole area was going to be demolished and rebuilt as a park. Sangesland did not see any petroleum spillage or any obvious sources. Parks Dept. is cleaning up the site and they were asked to call the Spills Hotline if they see any type of spillage or sheen on the river."
Remarks:	"caller reports sheen on water from pipe thet goes into river."

Material:

Site ID:	325485
Operable Unit ID:	828999
Operable Unit:	01
Material ID:	545915
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

X97 **ALLIANCE ENERGY LLC** **NY Spills** **S113405207**
SSE **1441 WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.209 mi.
1101 ft. **Site 4 of 11 in cluster X**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	1215865
Facility Type:	ER
DER Facility ID:	70117
Site ID:	479197
DEC Region:	2
Spill Date:	2013-02-23
Spill Number/Closed Date:	1215865 / 2013-03-04
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	2013-02-26
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2013-02-26
Spill Record Last Update:	2013-03-04
Spiller Name:	RICHARD BALDWIN
Spiller Company:	ALLIANCE ENERGY LLC
Spiller Address:	1441 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	RICHARD BALDWIN
Contact Phone:	(631) 567-1777 106
DEC Memo:	"Spoke with Richard Baldwin.Spill has been cleaned up by FD.No soil /drain was impacted. A report will be send to DEC. (sr) 03/04/13 Closure report in edocs.(sr)"
Remarks:	"individual drove away w/out removing pump hose, nyc fd c/u"

Material:

Site ID:	479197
Operable Unit ID:	1228940
Operable Unit:	01
Material ID:	2226693
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	Gallons
Recovered:	2.00
Resource Affected:	Not reported
Oxygenate:	Not reported

ALLIANCE ENERGY LLC (Continued) **S113405207**

Tank Test:

X98 **BELOW DISPENSORS** **NY Spills** **S116553269**
SSE **1441 WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.209 mi.
1101 ft. **Site 5 of 11 in cluster X**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	1311378
Facility Type:	ER
DER Facility ID:	70117
Site ID:	492273
DEC Region:	2
Spill Date:	2014-03-05
Spill Number/Closed Date:	1311378 / 2014-03-31
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	0301
Investigator:	RJFENG
Referred To:	Not reported
Reported to Dept:	2014-03-05
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2014-03-05
Spill Record Last Update:	2014-03-31
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	TIM FISHER
Contact Phone:	(949) 375-1174
DEC Memo:	"3/5/2014 - Feng - Spoke with Tim Fisher of Antea Group (timothy.fisher.@anteagroup.com, 949-375-1174). Antea Group has been retained by Getty Realty. Alliance Energy is the tenant and has been operated the site for a year. The contractor for Alliance Energy found impacts in the pea gravel beneath the dispensers. Antea Group has screened the pea gravel with PID and found one dispenser with 323 ppm and another dispenser with 273 ppm. Alliance's contractor has removed the pea gravel and cleaned the sump. The gravel will be stored into a 50-gallon drum and will be disposed. They have disconnected the dispensers and tested with water and found no leak in tht dispensers pan so it should not released to the subsurface. There is no indication of problem of the dispensers. The station is in the process of putting new dispensers and should be completing the work today or tomorrow, but there is no plan to collect soil sample beneath the dispensers upon they remove the whole dispensers out.

BELOW DISPENSORS (Continued) **S116553269**

Contact for Alliance's environmental management, David Went 339-368-0668. Spoke with David Went (339-369-0668, dwent@AllianceEnergy.com). Advised him on the removing of impacted soil, if there is any, and collecting soil sample while removing the dispensers. But he said that they are not removing the dispensers pans, the pans have been tested tighted so no need to remove that. Therefore, no soil will be exposed and removed. 3/31/2014 - received and reviewed a letter report from Tyree dated 3/31/2014 documenting the incidents associated with the dispensers and the removal of the stained and odored pea gravels. Spill is closed."

Remarks: "clean up underway."

Material:

Site ID:	492273
Operable Unit ID:	1241808
Operable Unit:	01
Material ID:	2242295
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

X99 **GETTY #329** **NY LTANKS S107787668**
SSE **1441 WESTCHESTER AVE** **NY Spills N/A**
1/8-1/4 **BRONX, NY**
0.209 mi.
1101 ft. **Site 6 of 11 in cluster X**

Relative:
Higher

Actual:
20 ft.

LTANKS:

Site ID:	74807
Spill Number/Closed Date:	9504305 / 2006-01-05
Spill Date:	1995-07-10
Spill Cause:	Tank Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	0301
Investigator:	rjfeng
Referred To:	REFER TO #97-00109
Reported to Dept:	1995-07-10
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1995-08-07

GETTY #329 (Continued) **S107787668**

Spill Record Last Update:	2006-01-05
Spiller Name:	Not reported
Spiller Company:	GETTY STATION
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	70117
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT SEE ALSO 97-04954 & 97-12845 & 97-00109. 04/11/03 Transfered from Tibbe to Vought 08/31/2005 - Feng - Project transferred from Vought to Feng. 10/20/2005 - Feng - Refer to Spill#: 97-00109 1/5/2006 - Feng - Spill closed and refer to 97-00109 @ same location. (RJF)"
Remarks:	"COMPANY IS REMOVING UNDERGROUND TANKS AND HAVE FOUND CONTAMINATED SOIL NOTE/ CALLER WAS GIVEN A WRONG # OF 95-04280"

Material:

Site ID:	74807
Operable Unit ID:	1015353
Operable Unit:	01
Material ID:	365814
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

SPILLS:

Facility ID:	0810395
Facility Type:	ER
DER Facility ID:	70117
Site ID:	407914
DEC Region:	2
Spill Date:	2008-12-15
Spill Number/Closed Date:	0810395 / 2009-01-29
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-12-15
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility

GETTY #329 (Continued) **S107787668**

Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2008-12-15
Spill Record Last Update:	2009-01-29
Spiller Name:	DERRICK ATKINSON
Spiller Company:	GETTY
Spiller Address:	1441 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	DERRICK ATKINSON
Contact Phone:	Not reported
DEC Memo:	"This monitoring well problem is associated with an ongoing remediation #9700109 This spill number is closed - Ref #9700109"
Remarks:	"Smell of gasoline detected in monitoring well #15 during routine sampling"

Material:

Site ID:	407914
Operable Unit ID:	1164448
Operable Unit:	01
Material ID:	2155823
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0803178
Facility Type:	ER
DER Facility ID:	70117
Site ID:	399872
DEC Region:	2
Spill Date:	2008-06-17
Spill Number/Closed Date:	0803178 / 2008-06-17
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-06-17
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party

GETTY #329 (Continued) **S107787668**

Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-06-17
Spill Record Last Update:	2008-06-17
Spiller Name:	MIKE CARR‘
Spiller Company:	GETTY#329
Spiller Address:	1441 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR‘
Contact Phone:	(518) 369-7822
DEC Memo:	"minor spill - all cleaned"
Remarks:	"CUSTOMER OVERFILL AND CLEANED : LESS THEN 1 GALLON"

Material:

Site ID:	399872
Operable Unit ID:	1156728
Operable Unit:	01
Material ID:	2147678
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0801685
Facility Type:	ER
DER Facility ID:	70117
Site ID:	397669
DEC Region:	2
Spill Date:	2008-05-13
Spill Number/Closed Date:	0801685 / 2008-05-15
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-05-13
CID:	404
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported

GETTY #329 (Continued) **S107787668**

Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-05-13
Spill Record Last Update:	2008-05-15
Spiller Name:	MIKE CARR‘
Spiller Company:	GETTY 329
Spiller Address:	1441 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR‘
Contact Phone:	(518) 369-7822
DEC Memo:	"minor spills - housekeeping issues"
Remarks:	"1pint of antifreeze; 1/4 of a pint of waste oil; and less than 1 gallon of gasoline; all cleaned up"

Material:

Site ID:	397669
Operable Unit ID:	1154611
Operable Unit:	01
Material ID:	2145419
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported
Site ID:	397669
Operable Unit ID:	1154611
Operable Unit:	01
Material ID:	2145421
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported
Site ID:	397669
Operable Unit ID:	1154611
Operable Unit:	01
Material ID:	2145420
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

GETTY #329 (Continued) **S107787668**

Tank Test:

Facility ID:	0800752
Facility Type:	ER
DER Facility ID:	70117
Site ID:	396560
DEC Region:	2
Spill Date:	2008-04-18
Spill Number/Closed Date:	0800752 / 2008-04-18
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-04-18
CID:	408
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-04-18
Spill Record Last Update:	2008-04-18
Spiller Name:	SCOTT HANLEY
Spiller Company:	GETTY #329
Spiller Address:	1441 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR‘
Contact Phone:	(518) 369-7822
DEC Memo:	"minor spill - all cleaned"
Remarks:	"HAS BEEN CLEANED;"

Material:

Site ID:	396560
Operable Unit ID:	1153531
Operable Unit:	01
Material ID:	2144299
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

GETTY #329 (Continued) **S107787668**

Facility ID:	0713251
Facility Type:	ER
DER Facility ID:	70117
Site ID:	394977
DEC Region:	2
Spill Date:	2008-03-14
Spill Number/Closed Date:	0713251 / 2008-03-17
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-03-14
CID:	404
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-03-14
Spill Record Last Update:	2008-03-17
Spiller Name:	MIKE CARR\\
Spiller Company:	GETTY 329
Spiller Address:	1441 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR\\
Contact Phone:	(518) 369-7822 CELL
DEC Memo:	"minor spill - all cleaned"
Remarks:	"less than 1 gallon spilled; all cleaned up"

Material:

Site ID:	394977
Operable Unit ID:	1151924
Operable Unit:	01
Material ID:	2142691
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0712861
Facility Type:	ER
DER Facility ID:	70117

GETTY #329 (Continued) **S107787668**

Site ID:	394539
DEC Region:	2
Spill Date:	2008-03-07
Spill Number/Closed Date:	0712861 / 2008-03-07
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-03-07
CID:	408
Water Affected:	Not reported
Spill Source:	Passenger Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-03-07
Spill Record Last Update:	2008-03-07
Spiller Name:	Not reported
Spiller Company:	CUSTOMER CAR
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	MIKE CARR\\
Contact Phone:	(518) 369-7822 CELL
DEC Memo:	"minor spill - all cleaned"
Remarks:	"vehicle gas tank leaked and has been cleaned;"

Material:

Site ID:	394539
Operable Unit ID:	1151491
Operable Unit:	01
Material ID:	2142219
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	6.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0711051
Facility Type:	ER
DER Facility ID:	70117
Site ID:	392464
DEC Region:	2
Spill Date:	2008-01-18

GETTY #329 (Continued) **S107787668**

Spill Number/Closed Date:	0711051 / 2008-01-28
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-01-18
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-01-18
Spill Record Last Update:	2008-01-28
Spiller Name:	MIKE CARR\\
Spiller Company:	GETTY#329
Spiller Address:	1441 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR\\
Contact Phone:	(518) 369-7822 CELL
DEC Memo:	"01/18/08-Vought-Duty desk officer. Spill assigned to DEC Sangesland as minor spill and Sangesland managing Getty portfolio as per DEC Austin. Tyree report states: waste oil on asphalt, speedy dry applied - all cleaned up "
Remarks:	"ALL CLEANED UP"

Material:

Site ID:	392464
Operable Unit ID:	1149469
Operable Unit:	01
Material ID:	2139995
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	1.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0706009
Facility Type:	ER
DER Facility ID:	70117
Site ID:	386449
DEC Region:	2
Spill Date:	2007-08-27

GETTY #329 (Continued) **S107787668**

Spill Number/Closed Date: 0706009 / 2007-08-27
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2007-08-27
CID: 444
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2007-08-27
Spill Record Last Update: 2007-08-27
Spiller Name: MIKE CARR\\
Spiller Company: GETTY#329
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR\\
Contact Phone: (518) 369-7822 CELL
DEC Memo: "minor spill - all cleaned"
Remarks: "IS CLEANED UP"

Material:
Site ID: 386449
Operable Unit ID: 1143687
Operable Unit: 01
Material ID: 2133957
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: 1.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0704745
Facility Type: ER
DER Facility ID: 70117
Site ID: 384958
DEC Region: 2
Spill Date: 2007-07-27
Spill Number/Closed Date: 0704745 / 2007-07-27
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.

GETTY #329 (Continued) **S107787668**

	Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2007-07-27
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2007-07-27
Spill Record Last Update:	2007-07-27
Spiller Name:	MIKE CARR\\
Spiller Company:	GETTY#329
Spiller Address:	1441 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR\\
Contact Phone:	(518) 369-7822
DEC Memo:	""
Remarks:	"all cleaned up: staining:"

Material:

Site ID:	384958
Operable Unit ID:	1142241
Operable Unit:	01
Material ID:	2132466
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0702499
Facility Type:	ER
DER Facility ID:	70117
Site ID:	382240
DEC Region:	2
Spill Date:	2007-05-30
Spill Number/Closed Date:	0702499 / 2007-06-26
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges

GETTY #329 (Continued) **S107787668**

Referred To:	Not reported
Reported to Dept:	2007-05-30
CID:	408
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2007-05-30
Spill Record Last Update:	2007-06-26
Spiller Name:	SCOT HANLEY
Spiller Company:	GETTY #329
Spiller Address:	1441 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR
Contact Phone:	(518) 369-7822
DEC Memo:	"surface spill on asphalt - all cleaned"
Remarks:	"HAS BEEN CLEANED;"

Material:

Site ID:	382240
Operable Unit ID:	1139643
Operable Unit:	01
Material ID:	2129685
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

X100 **GETTY GAS STATION** **NY Spills** **S113405160**
SSE **1441 WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.209 mi.
1101 ft. **Site 7 of 11 in cluster X**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	1215811
Facility Type:	ER
DER Facility ID:	70117
Site ID:	479143
DEC Region:	2
Spill Date:	2013-02-23

GETTY GAS STATION (Continued) **S113405160**

Spill Number/Closed Date:	1215811 / 2013-03-29
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2013-02-23
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2013-02-23
Spill Record Last Update:	2013-03-29
Spiller Name:	SANACORE
Spiller Company:	UNKNOWN
Spiller Address:	1441 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	SANACORE
Contact Phone:	(347) 203-6886
DEC Memo:	"surface spill at a gas station from someone filling a car. FD on site, fuel went down the sewer and was flushed by FD."
Remarks:	"over fill of vehicle - 20 gal. down a sewer - fdny hazmat on scene - clean up in progress"

Material:

Site ID:	479143
Operable Unit ID:	1228885
Operable Unit:	01
Material ID:	2226626
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

X101 **BRONX RIVER AV/WESTCHESTE** **NY Spills** **S102238491**
SSE **BX RIVER AV/WESTCHESTER** **N/A**
1/8-1/4 **BRONX, NY**
0.212 mi.
1117 ft. **Site 8 of 11 in cluster X**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	9511693
Facility Type:	ER
DER Facility ID:	239166
Site ID:	295537
DEC Region:	2
Spill Date:	1995-12-13
Spill Number/Closed Date:	9511693 / 1995-12-15
Spill Cause:	Abandoned Drums
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	1995-12-15
CID:	323
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Police Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1995-12-15
Spill Record Last Update:	1996-01-18
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	LT MCMAHON
Contact Phone:	(212) 837-8450
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG CALLED LT. MCMAHON, HE SAID THAT NYCDEP WAS ALSO ON SCENE & HAD DISPOSED OF THE DRUMS."
Remarks:	"DRUM WAS LEFT ON THE STREET CORNER, SPILL WAS SANDED TO CLEAN IT UP. FDNY AND SANITATION WAS ON THE SCENE."

Material:

Site ID:	295537
Operable Unit ID:	1022369
Operable Unit:	01
Material ID:	359021
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	35.00
Units:	Gallons
Recovered:	35.00
Resource Affected:	Not reported
Oxygenate:	Not reported

BRONX RIVER AV/WESTCHESTE (Continued) **S102238491**

Tank Test:

X102 **CON EDISON MANHOLE 23574** **RCRA NonGen / NLR** **1015746620**
SSE **BRONX RIVER AVE & CLOSE AVE** **NY MANIFEST** **NYP004246114**
1/8-1/4 **BRONX, NY 10472**
0.212 mi.
1117 ft. **Site 9 of 11 in cluster X**

Relative: Higher

Actual: 20 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/02/2012
Facility name:	CON EDISON MANHOLE 23574
Facility address:	BRONX RIVER AVE & CLOSE AVE BRONX, NY 10472
EPA ID:	NYP004246114
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	GINO FRABASILE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	914-925-6219
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/03/2012
Site name:	CON EDISON MANHOLE 23574
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

NY MANIFEST:

Country:	USA
EPA ID:	NYP004246114
Facility Status:	Not reported
Location Address 1:	BRONX RIVER AVE & CLOSE AVE
Code:	BP

CON EDISON MANHOLE 23574 (Continued) **1015746620**

Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10473
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004246114
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE - 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2012
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	01/03/2012
Trans1 Recv Date:	01/03/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/04/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004246114
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980593636
TSDF ID 2:	Not reported
Manifest Tracking Number:	003207441FLE
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	100.0

CON EDISON MANHOLE 23574 (Continued) **1015746620**

Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Waste Code:	D008
Waste Code 1_2:	B007
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

X103 **NYNEX** **NY MANIFEST** **1009233339**
SSE **BRONX RIV RD & WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.212 mi.
1117 ft. **Site 10 of 11 in cluster X**

Relative:
Higher

Actual:
20 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP000913939
Facility Status:	Not reported
Location Address 1:	BRONX RIV RD & WESTCHESTER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP000913939
Mailing Name:	NYNEX
Mailing Contact:	R DEPASO
Mailing Address 1:	1095 AVE OF AMER
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10036
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2123958544

NY MANIFEST:

Document ID:	CTF0204800
Manifest Status:	C
seq:	Not reported
Year:	1994
Trans1 State ID:	P4856WOH
Trans2 State ID:	Not reported
Generator Ship Date:	03/28/1994
Trans1 Recv Date:	03/28/1994
Trans2 Recv Date:	/ /

NYNEX (Continued) **1009233339**

TSD Site Recv Date:	03/30/1994
Part A Recv Date:	/ /
Part B Recv Date:	04/08/1994
Generator EPA ID:	NYP000913939
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID 1:	CTD000604488
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00200
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
1 additional NY_MANIFEST: record(s) in the EDR Site Report.

X104 **WESTCHESTER @ CLOSE AV/BX** **NY Spills** **S102145604**
SSE **WESTCHESTER AV @ CLOSE AV** **N/A**
1/8-1/4 **BRONX, NY**
0.212 mi.
1117 ft. **Site 11 of 11 in cluster X**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	8909355
Facility Type:	ER
DER Facility ID:	138223
Site ID:	163893
DEC Region:	2
Spill Date:	1989-12-27
Spill Number/Closed Date:	8909355 / 1989-12-29
Spill Cause:	Traffic Accident
Spill Class:	Not reported
SWIS:	0301
Investigator:	SULLIVAN
Referred To:	Not reported
Reported to Dept:	1989-12-27
CID:	Not reported

WESTCHESTER @ CLOSE AV/BX (Continued) **S102145604**

Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Fire Department
Cleanup Ceased:	1989-12-29
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1990-01-03
Spill Record Last Update:	2002-06-17
Spiller Name:	Not reported
Spiller Company:	M B FUEL OIL CO
Spiller Address:	1281 VIELE AV
Spiller City,St,Zip:	BRONX, NY 10499
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	""
Remarks:	"CLEAN UP CONTRACTOR WAS A L EASTMOND, MOST OF THE OIL WAS PUMPED INTO VAC TRUCK, SPEEDY DRY WAS APPLIED & CLEANED UP, CLEANED UP BY SPILLER ON 12/27/89."

Material:

Site ID:	163893
Operable Unit ID:	936528
Operable Unit:	01
Material ID:	442518
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1000.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

AA105 **DRUM RUN** **NY Spills** **S111377949**
North **1695 BOONE AVE** **NY E DESIGNATION** **N/A**
1/8-1/4 **BRONX, NY**
0.214 mi.
1129 ft. **Site 1 of 4 in cluster AA**

Relative:
Higher

Actual:
32 ft.

SPILLS:

Facility ID:	1201278
Facility Type:	ER
DER Facility ID:	418360
Site ID:	463965
DEC Region:	2
Spill Date:	2012-05-08
Spill Number/Closed Date:	1201278 / 2012-06-21
Spill Cause:	Abandoned Drums
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

DRUM RUN (Continued) **S111377949**

SWIS:	0301
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2012-05-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2012-05-08
Spill Record Last Update:	2012-06-21
Spiller Name:	NYC DEP
Spiller Company:	UNKNOWN
Spiller Address:	1695 BOONE AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	NYC DEP
Contact Phone:	(917) 576-4764
DEC Memo:	"05/08/12-Hiralkumar Patel. 4:49 PM:- spoke with Dorcas Ndzingwa at NYC DEP. drum is located on sidewalk in front of 1695 Boone Ave. drum not leaking. not found. closed"
Remarks:	"Requesting pickup of non flamible substance. Unknown spiller."

Material:

Site ID:	463965
Operable Unit ID:	1214050
Operable Unit:	01
Material ID:	2212067
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	34.00
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

E DESIGNATION:

Tax Lot(s):	33
Tax Block:	3010
Borough Code:	Not reported
E-No:	E-277
Effective Date:	10/5/2011
Satisfaction Date:	Not reported
Ceqr Number:	10DCP017X
Ulurp Number:	100310ZMX
Zoning Map No:	3d

DRUM RUN (Continued) **S111377949**

Description:	Air Quality - #2 Fuel Oil or Natural Gas for heating, ventilating and air conditioning systems
Lot Remediation Date:	Not reported
Description:	Exhaust stack location limitations
Lot Remediation Date:	Not reported
Description:	Hazardous Materials* Phase I and Phase II Testing Protocol
Lot Remediation Date:	Not reported
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

Z106 **INTERSECTION** **NY Spills** **S106003815**
SW **FREEMAN AVE/LONGFELLOW RD** **N/A**
1/8-1/4 **BRONX, NY**
0.216 mi.
1141 ft. **Site 2 of 5 in cluster Z**

Relative:
Higher

Actual:
58 ft.

SPILLS:

Facility ID:	0201888
Facility Type:	ER
DER Facility ID:	214821
Site ID:	263520
DEC Region:	2
Spill Date:	2002-05-22
Spill Number/Closed Date:	0201888 / 2004-01-12
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	2002-05-22
CID:	397
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-05-22
Spill Record Last Update:	2004-01-21
Spiller Name:	Not reported
Spiller Company:	CON ED
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL e2MIS no. 142-921: 22-May-2002 @ 02:05 Hrs. Underground employee Mike McDonnel, #17152 reports hydraulic fluid leaked 15 gallons onto blacktop from comapny vehicle #60402. No sewers, waterways or private property affected. No smoke or fire involved.

INTERSECTION (Continued) **S106003815**

Clean up in progress. 22-MAY-2002 11:45 Environmental Flush Operating Supervisor C. D'Alisera reports cleanup complete at 11:30. 6 drums of oily non-hazardous waste was generated. Transportation contacted for drum pickup. Environmental Flush Mech B. R. Amelio 48985, Mech B R. Budhoo 82277, GUW M. Williams 83739, and Mech B M. McDonnell 17152 performed cleanup of 15' X 20' area utilizing simple green and absorbent materials. The spilled hydraulic fluid was absorbed with speedy dry, then the area was scrubbed with simple green and absorbent was reapplied and the area was re-scrubbed with simple green. Clean up complete. 22-MAY-2002 12:16 Vehicle 60402 to be turned in to transportation for permanent repairs. Temp repairs completed by transportation on location. Update 4/29/03 Permanent repairs completed."

Remarks: "HYDRUALIC LEAK FROM VEH IN THE PROCESS OF BEING CLENAED CON3ED#142921"

Material:

Site ID:	263520
Operable Unit ID:	855006
Operable Unit:	01
Material ID:	523304
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

107
WNW
1/8-1/4
0.217 mi.
1147 ft.

CONED
VYSE AVE AND 172ND
BRONX, NY

NY Spills **S111064990**
N/A

Relative:
Higher

Actual:
67 ft.

SPILLS:

Facility ID:	1103138
Facility Type:	ER
DER Facility ID:	405252
Site ID:	450690
DEC Region:	2
Spill Date:	2011-06-20
Spill Number/Closed Date:	1103138 / 2011-08-11
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2011-06-20
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle

CONED (Continued) **S111064990**

Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-06-20
Spill Record Last Update:	2011-08-11
Spiller Name:	Not reported
Spiller Company:	CON ED
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	ERT
Contact Phone:	212-580-8383
DEC Memo:	"8/11/11 - Austin - Hydralic hose broke on Con Ed truck, spilling 10 gals. of hydraulic oil - Con Ed contained and cleaned up the spill - See documents in eDocs for additional information - Spill closed - end"
Remarks:	"10 GALLONS SPILLED TO ROADWAY, CONTAINED, CLEANUP PENDING."

Material:

Site ID:	450690
Operable Unit ID:	1200892
Operable Unit:	01
Material ID:	2197343
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

R108 **CON EDISON** **NY MANIFEST** **S119077016**
East **W 172ND ST & ELDER AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.217 mi.
1147 ft. **Site 6 of 7 in cluster R**

Relative:
Higher

Actual:
46 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004818714
Facility Status:	Not reported
Location Address 1:	W 172 ST & ELDER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

CON EDISON (Continued) **S119077016**

NY MANIFEST:

EPAID:	NYP004818714
Mailing Name:	CON EDISON
Mailing Contact:	DENNIS HUACON
Mailing Address 1:	4 IRVING PL 15TH FL
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124603770

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2015
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	08/05/2015
Trans1 Recv Date:	08/05/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/07/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004818714
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	014466080JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	7000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008

CON EDISON (Continued) **S119077016**

Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional NY_MANIFEST: record(s) in the EDR Site Report.

R109 **CON EDISON** **NJ MANIFEST** **S120674990**
East **W 172ND ST & ELDER AVE** **N/A**
1/8-1/4 **BRONX, NY 10472**
0.217 mi.
1147 ft. **Site 7 of 7 in cluster R**

Relative:
Higher

Actual:
46 ft.

NJ MANIFEST:

EPA Id:	NYP004818714
Mail Address:	IRVING PL 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	014466080JJK
EPA ID:	NYP004818714
Date Shipped:	8/5/2015
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported

CON EDISON (Continued) **S120674990**

Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

Z110 **AMBUTRANS HOLDING CORP.** **NY UST** **U000395537**
SW **1028 FREEMAN STREET** **NY Spills** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.218 mi.
1150 ft. **Site 3 of 5 in cluster Z**

Relative:
Higher

Actual:
46 ft.

UST:

Id/Status:	2-110582 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	N/A
UTM X:	593876.96892
UTM Y:	4520330.13083
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id:	3392
Affiliation Type:	Facility Owner
Company Name:	AMBUTRANS HOLDING CORP.
Contact Type:	Not reported
Contact Name:	JOHN WEIR
Address1:	1028 FREEMAN STREET
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(631) 317-4786
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-01-04

Site Id:	3392
Affiliation Type:	Mail Contact
Company Name:	AMBUTRANS HOLDING CORP.
Contact Type:	Not reported

AMBUTRANS HOLDING CORP. (Continued) **U000395537**

Contact Name:	JOHN WEIR
Address1:	1028 FREEMAN STREET
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10459
Country Code:	001
Phone:	(631) 317-4786
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-01-04

Site Id:	3392
Affiliation Type:	Facility Operator
Company Name:	AMBUTRANS HOLDING CORP.
Contact Type:	Not reported
Contact Name:	MEDICAL EXPRESS AMBULANCE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(631) 317-4786
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-01-04

Site Id:	3392
Affiliation Type:	Emergency Contact
Company Name:	AMBUTRANS HOLDING CORP.
Contact Type:	Not reported
Contact Name:	JOHN WEIR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(631) 317-4786
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2008-01-04

Tank Info:

Tank Number:	001
Tank ID:	4845
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	05/01/1985
Date Tank Closed:	03/01/2006
Registered:	True

AMBUTRANS HOLDING CORP. (Continued) **U000395537**

Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	00
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I01 - Overfill - Float Vent Valve
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

SPILLS:

Facility ID:	0302597
Facility Type:	ER
DER Facility ID:	171947
Site ID:	207170
DEC Region:	2
Spill Date:	2003-06-11
Spill Number/Closed Date:	0302597 / 2006-04-10
Spill Cause:	Other
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	jdjarrat
Referred To:	Not reported
Reported to Dept:	2003-06-11
CID:	257
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Tank Tester
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2003-06-11
Spill Record Last Update:	2006-04-10
Spiller Name:	RON OGRADY
Spiller Company:	MEDEX
Spiller Address:	1028 FREEMAN STREET
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	RON OGRADY

AMBUTRANS HOLDING CORP. (Continued) **U000395537**

Contact Phone: (718) 617-1522
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL Sangesland DDO Sent TTF letter modified to read Line Test Failure 12/10/03 mt/// Transferred from Tipple to Rommel 7/15/05 Transferred to Jarratt (co) Fenley & Nicol contacted about latest status of line failure - awaiting response. 10/3/05 Brian McCabe of Fenley & Nicol contacted for information. (631) 586-4900 ext. 191 2/27/06 Igor Goldstein of GC Engineering will remove tank and file report. 4/10/06 Report received. Spill closed."
Remarks: "line test failure"

Material:
Site ID: 207170
Operable Unit ID: 870332
Operable Unit: 01
Material ID: 507065
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

AB111 **NYC DEPT OF EDUCATION - PS 50X** **RCRA-SQG** **1004755971**
NW **1550 VYSE AVE** **NY Spills** **NY0000903526**
1/8-1/4 **BRONX, NY 10460** **NY MANIFEST**
0.218 mi.
1153 ft. **Site 1 of 4 in cluster AB**

Relative:
Higher

Actual:
63 ft.

RCRA-SQG:
Date form received by agency: 01/29/2014
Facility name: NYC DEPT OF EDUCATION - PS 50X
Facility address: 1550 VYSE AVE
BRONX, NY 10460
EPA ID: NY0000903526
Mailing address: THOMSON AVE
LONG ISLAND CITY, NY 11101
Contact: ALEXANDER LEMPERT
Contact address: THOMSON AVE
LONG ISLAND CITY, NY 11101
Contact country: US
Contact telephone: 718-472-8501
Contact email: ALEMPERT@NYCSCA.ORG
EPA Region: 02
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

NYC DEPT OF EDUCATION - PS 50X (Continued) **1004755971**

Owner/Operator Summary:

Owner/operator name:	NYC BOARD OF EDUCATION
Owner/operator address:	28-11 QUEENS PLZ N
	LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	718-349-5600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NYC BOARD OF EDUCATION
Owner/operator address:	28-11 QUEENS PLZ N
	LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	718-349-5600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NYC DEPT OF EDUCATION
Owner/operator address:	THOMSON AVE
	LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	718-472-8501
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	03/03/1914
Owner/Op end date:	Not reported

Owner/operator name:	NYC DEPT OF SCHOOL FACILITIES
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	03/03/1914
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

NYC DEPT OF EDUCATION - PS 50X (Continued) **1004755971**

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: B004
. Waste name: B004

. Waste code: B007
. Waste name: B007

Historical Generators:
Date form received by agency: 01/01/2007
Site name: NYC BD OF ED - PUBLIC SCHOOL 50 BRONX
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Site name: NYC BD OF ED - PUBLIC SCHOOL 50 BRONX
Classification: Not a generator, verified

Date form received by agency: 07/27/1995
Site name: NYC BD OF ED - PUBLIC SCHOOL 50 BRONX
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

SPILLS:
Facility ID: 1109764
Facility Type: ER
DER Facility ID: 412026
Site ID: 457546
DEC Region: 2
Spill Date: 2011-11-03
Spill Number/Closed Date: 1109764 / 2011-11-09
Spill Cause: Equipment Failure
Spill Class: Not reported
SWIS: 0301
Investigator: vszhune
Referred To: Not reported
Reported to Dept: 2011-11-03
CID: Not reported
Water Affected: Not reported

NYC DEPT OF EDUCATION - PS 50X (Continued) **1004755971**

Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-11-03
Spill Record Last Update:	2011-11-09
Spiller Name:	Not reported
Spiller Company:	FS PETRO
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	JIM CAREY
Contact Phone:	Not reported
DEC Memo:	"11/03/11- Zhune responded to this site. Oil company (F&S Petroleum) while doing delivery at School PS 50 the hose broke. Approximately 20 to 25 gallons of oil # went to the street to the curb and probably some spill to the catch basin located at E 173 Street. Oil company cleaned mostly the spill. Speedy-dry was left along the curb. 11/04/11- Zhune spoke to Jim Carey fom oil company F&S Petroleum 347-597-2821. Rite-Way is goimg to the site to remove the speedy-dry along the curb and clean the catch basin. Rite-Way-Pete Mirabild718-855-7272. 11/09/11- F&S Petroleum Corporation sent a letter including invoices. On Friday 11/4/2011. Riteway Tank Maintenance cleaned via vac-truck the storm drain located at Vyse Avenue and East 172nd street. In addition. The coating of absorbent material curbside was removed. The material removed by F&S on 11/3/2011 was disposed of by Milro Environmental of Freeport, NY. Spill closed. "
Remarks:	"spill to driveway and street/clean up underway"

Material:

Site ID:	457546
Operable Unit ID:	1207674
Operable Unit:	01
Material ID:	2204968
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

NY MANIFEST:

Country:	USA
EPA ID:	NY0000903526
Facility Status:	Not reported
Location Address 1:	1550 VYSE AVENUE

NYC DEPT OF EDUCATION - PS 50X (Continued) **1004755971**

Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NY0000903526
Mailing Name:	NEW YORK CITY B O E
Mailing Contact:	JACK BRUCCULERI
Mailing Address 1:	1550 VYSE AVE
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10460
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7183495600

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	07/28/2014
Trans1 Recv Date:	07/28/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/07/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000903526
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	MAC300017498
TSDF ID 2:	Not reported
Manifest Tracking Number:	000646113VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	Y
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H039
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported

NYC DEPT OF EDUCATION - PS 50X (Continued) **1004755971**

Quantity:	1250
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	5
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Waste Code:	Not reported
Waste Code 1_2:	B007
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
4 additional NY_MANIFEST: record(s) in the EDR Site Report.

AB112 **OUTSIDE** **NY Spills** **S111456884**
NW **1550 VYSE AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.218 mi.
1153 ft. **Site 2 of 4 in cluster AB**

Relative:
Higher

Actual:
63 ft.

SPILLS:

Facility ID:	1110947
Facility Type:	ER
DER Facility ID:	413286
Site ID:	458812
DEC Region:	2
Spill Date:	2011-12-08
Spill Number/Closed Date:	1110947 / 2012-04-17
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2011-12-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-12-08
Spill Record Last Update:	2012-04-17
Spiller Name:	GUTERMAN LEE
Spiller Company:	UNKNOWN
Spiller Address:	1515 VYSE AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	GUTERMAN LEE
Contact Phone:	7184728502
DEC Memo:	"report submitted. See edocs. Closed. "

OUTSIDE (Continued) **S111456884**

Remarks: "Oil sheen on ground water in the trench"

Material:
Site ID: 458812
Operable Unit ID: 1208925
Operable Unit: 01
Material ID: 2206280
Material Code: 0064A
Material Name: unknown material
Case No.: Not reported
Material FA: Other
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Z113 **CON EDISON** **NY MANIFEST** **S117739392**
SW **1000 FREEMAN ST** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.225 mi.
1186 ft. **Site 4 of 5 in cluster Z**

Relative:
Higher

Actual:
50 ft.

NY MANIFEST:
Country: USA
EPA ID: NYP004725065
Facility Status: Not reported
Location Address 1: NEC FREEMAN ST & WEST FARMS RD
Code: BP
Location Address 2: SB14353
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10461
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004725065
Mailing Name: CON EDISON
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL
Mailing Address 2: 15TH FL
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: Not reported

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2015
Trans1 State ID: NYD006982359

CON EDISON (Continued) **S117739392**

Trans2 State ID:	Not reported
Generator Ship Date:	02/04/2015
Trans1 Recv Date:	02/04/2015
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/05/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004725065
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	012774689JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	25
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional NY_MANIFEST: record(s) in the EDR Site Report.

Z114 **CON EDISON** **NJ MANIFEST** **S120666690**
SW **1000 FREEMAN ST** **N/A**
1/8-1/4 **BRONX, NY 10459**
0.225 mi.
1186 ft. **Site 5 of 5 in cluster Z**

Relative:
Higher

Actual:
50 ft.

NJ MANIFEST:

EPA Id:	NYP004725065
Mail Address:	IRVING PL, 15TH FL NE
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported

CON EDISON (Continued) **S120666690**

Emergency Phone:	Not reported
Contact:	THOMAS TEELING
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	012774689JJK
EPA ID:	NYP004725065
Date Shipped:	2/4/2015
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NYD006982359
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

AC115 **CON EDISON** **NY MANIFEST** **S117064319**
SE **1214 EVERGREEN AVE** **N/A**
1/8-1/4 **BRONX, NY 10460**
0.226 mi.
1192 ft. **Site 1 of 3 in cluster AC**

Relative:
Higher

Actual:
26 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004567970
Facility Status:	Not reported
Location Address 1:	1215 EVERGREEN AVE
Code:	BP
Location Address 2:	SB 21171
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004567970
Mailing Name:	CON EDISON
Mailing Contact:	TOM TEELING
Mailing Address 1:	4 IRVING PLACE 15TH FLOOR
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	06/17/2014
Trans1 Recv Date:	06/17/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/20/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004567970
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	013255247JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

CON EDISON (Continued) **S117064319**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

AA116 **GETTY PETROLEUM CORP 00276** **RCRA NonGen / NLR** **1001215596**
North **1720 BOONE AVE & E 174TH ST** **ICIS** **NYR000047670**
1/8-1/4 **BRONX, NY 10460** **FINDS**
0.227 mi. **ECHO**
1196 ft. **Site 2 of 4 in cluster AA** **NY MANIFEST**

Relative:
Higher

Actual:
32 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	GETTY PETROLEUM CORP 00276
Facility address:	1720 BOONE AVE & E 174TH ST BRONX, NY 10460
EPA ID:	NYR000047670
Mailing address:	JERICHO TNPK JERICHO, NY 11753
Contact:	DALE HOLDEN
Contact address:	JERICHO TNPK JERICHO, NY 11753
Contact country:	US
Contact telephone:	516-286-2600
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	GETTY PETROLEUM CORP
Owner/operator address:	125 JERICHO TNPK JERICHO, NY 11753
Owner/operator country:	US
Owner/operator telephone:	516-286-2600
Owner/operator email:	Not reported

GETTY PETROLEUM CORP 00276 (Continued) **1001215596**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GETTY PETROLEUM CORP
Owner/operator address: 125 JERICHO TNPK
JERICHO, NY 11753
Owner/operator country: US
Owner/operator telephone: 516-286-2600
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: GETTY PETROLEUM CORP 00276
Classification: Not a generator, verified

Date form received by agency: 12/09/1997
Site name: GETTY PETROLEUM CORP 00276
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

GETTY PETROLEUM CORP 00276 (Continued) **1001215596**

ICIS:

Enforcement Action ID:	02-1999-7503
FRS ID:	110008101366
Action Name:	LEEMILTS PETROLEUM INC
Facility Name:	GETTY PETROLEUM CORP 00276
Facility Address:	1720 BOONE AVE & E 174TH ST BRONX, NY 10460
Enforcement Action Type:	RCRA 9006 AO For Comp And/Or Pen (UST)
Facility County:	BRONX
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	9006
Facility SIC Code:	5541
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	40.835235
Longitude in Decimal Degrees:	-73.883796
Permit Type Desc:	Not reported
Program System Acronym:	8471
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Facility Name:	GETTY PETROLEUM CORP 00276
Address:	1720 BOONE AVE & E 174TH ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5541

Facility Name:	GETTY PETROLEUM CORP 00276
Address:	1720 BOONE AVE & E 174TH ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5541

FINDS:

Registry ID: 110008101366

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and

GETTY PETROLEUM CORP 00276 (Continued) **1001215596**

it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001215596
Registry ID:	110008101366
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008101366

NY MANIFEST:

Country:	USA
EPA ID:	NYR000047670
Facility Status:	Not reported
Location Address 1:	1720 BOONE AVE & E 174TH ST
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10460
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYR000047670
Mailing Name:	GETTY PETROLEUM CORP
Mailing Contact:	STEVE GORDON
Mailing Address 1:	1720 BOONE AVE & E 174TH ST
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10460
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	9999999999

NY MANIFEST:

Document ID:	CTF0510798
Manifest Status:	Not reported
seq:	01
Year:	1998
Trans1 State ID:	CT23922A
Trans2 State ID:	Not reported
Generator Ship Date:	01/06/1998
Trans1 Recv Date:	01/06/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/07/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000047670

GETTY PETROLEUM CORP 00276 (Continued) **1001215596**

Trans1 EPA ID:	CTD021816889
Trans2 EPA ID:	Not reported
TSDF ID 1:	CTD021816889
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00220
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

AA117 **LOT 17,TAXBLOCK 3015** **NY Spills S105234721**
North **1704 BOONE AVENUE** **NY E DESIGNATION N/A**
1/8-1/4 **BRONX, NY 10460**
0.230 mi.
1212 ft. **Site 3 of 4 in cluster AA**

Relative:
Higher

Actual:
31 ft.

SPILLS:

Facility ID:	0107083
Facility Type:	ER
DER Facility ID:	231365
Site ID:	285329
DEC Region:	2
Spill Date:	2001-10-08
Spill Number/Closed Date:	0107083 / 2003-08-18

LOT 17,TAXBLOCK 3015 (Continued) **S105234721**

Spill Cause:	Abandoned Drums
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	2001-10-09
CID:	382
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-10-09
Spill Record Last Update:	2003-08-18
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	CHRIS HAAS
Contact Phone:	(917) 769-1263
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO 8/18/03 TJD Drums emptied as part of drum run . No spill. No further action required."
Remarks:	"8 55 gals drums at location - no spill - trace amounts of oil/water mix in each drums."

Material:

Site ID:	285329
Operable Unit ID:	844155
Operable Unit:	01
Material ID:	531921
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

E DESIGNATION:

Tax Lot(s):	17
Tax Block:	3015
Borough Code:	BX
E-No:	E-277
Effective Date:	10/5/2011
Satisfaction Date:	Not reported

LOT 17,TAXBLOCK 3015 (Continued) **S105234721**

Ceqr Number: 10DCP017X
Ulurp Number: 100310ZMX
Zoning Map No: 3d

Description: Air Quality - HVAC fuel limited to natural gas
Lot Remediation Date: Not reported

Description: Exhaust stack location limitations
Lot Remediation Date: Not reported

Description: Hazardous Materials* Phase I and Phase II Testing Protocol
Lot Remediation Date: Not reported

Description: Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date: Not reported

118
West
1/8-1/4
0.230 mi.
1213 ft.

DRUM RUN
JENNINGS ST AND VYSE AVE
BRONX, NY

NY Spills **S118636711**
N/A

Relative:
Higher

Actual:
69 ft.

SPILLS:
Facility ID: 1511795
Facility Type: ER
DER Facility ID: 478819
Site ID: 524578
DEC Region: 2
Spill Date: 2016-03-11
Spill Number/Closed Date: 1511795 / 2016-03-22
Spill Cause: Abandoned Drums
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
SWIS: 0301
Investigator: RMPIPER
Referred To: Not reported
Reported to Dept: 2016-03-11
CID: Not reported
Water Affected: Not reported
Spill Source: Transformer
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2016-03-11
Spill Record Last Update: 2016-03-22
Spiller Name: DAVID HO
Spiller Company: UNKNOWN
Spiller Address: JENNINGS ST AND VYSE AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 999
Contact Name: DAVID HO
Contact Phone: (917) 682-2432
DEC Memo: "3-11-16 - Obligado - Desk Duty - I called Mr. Ho. I left a message to call back the NYSDEC. Assigned to Piper 3/22/2016- DEC Piper - Not

DRUM RUN (Continued) **S118636711**

found during drum run on 3/21/16. Spill closed."
Remarks: "drum containers approx 10 gallons of waste oil"

Material:
Site ID: 524578
Operable Unit ID: 1273541
Operable Unit: 01
Material ID: 2277975
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

AC119 **COMMERCIAL BUILDING** **NY Spills** **S111456719**
SE **1471 WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.232 mi.
1226 ft. **Site 2 of 3 in cluster AC**

Relative:
Higher

Actual:
24 ft.

SPILLS:
Facility ID: 1110688
Facility Type: ER
DER Facility ID: 413006
Site ID: 458536
DEC Region: 2
Spill Date: 2011-12-01
Spill Number/Closed Date: 1110688 / 2011-12-05
Spill Cause: Equipment Failure
Spill Class: Not reported
SWIS: 0301
Investigator: HRPATEL
Referred To: Not reported
Reported to Dept: 2011-12-01
CID: Not reported
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Fire Department
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2011-12-01
Spill Record Last Update: 2011-12-28
Spiller Name: NYC MANAGMENT CO
Spiller Company: UNKNOWN
Spiller Address: 1471 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 999

COMMERCIAL BUILDING (Continued) **S111456719**

Contact Name: NYC MANAGMENT CO
Contact Phone: 2126898833
DEC Memo: "12/01/11-Hiralkumar Patel. 8:27 PM:- spoke with John at FDNY. he mentioned that oil tank removed and oil spilled onto basement floor. FDNY Hazmat is doing cleanup. 12/02/11-Hiralkumar Patel. alternate addresses: 1201-1207 Evergreen Ave, 1471-1479 Westchester Ave no PBS or other spills found for the site. 1471 Westchester Avenue LLC. **property owner** c/o New York City Management LLC. **management company** 381 Park Avenue South, 15th Floor New York, NY 10016 Attn.: Preeti Mirani **property manager** Ph. (212) 689-8833 Ext. 8723 (646) 472-8723 Fax (212) 689-3888 email: pmirani@nycmgmt.com 9:43 AM:- left message for Ms. Mirani. 9:45 AM:- sent email to Ms. Mirani requesting a call back. email copied to Robert Jenny (managing director at NYC Management; rjenny@nycmgmt.com). 9:51 AM:- received call from Ms. Mirani. she mentioned that John Catalic, their field manager is on-site and asked to contact him. 9:55 AM:- left message for Mr. Catalic. John Catalic NYC Management LLC. Vice President of Field Operations Ph. (917) 682-7823 email: jcatalic@nycmgmt.com duplicate spill reported by NYC DEP (spill #: 1110694). 9:59 AM:- received call from Mr. Catalic. he mentioned that the site contains multiple single story stores. each store has their own electrical heating system. Mr. Catalic mentioned that the oil tank and boiler in the building basement were abandoned more than 30 years ago. it was a 275 gal AST on legs in middle of basement. yesterday around 3 PM, tenants noticed noise in the basement and saw few people taking away metals including the oil tank. lateron one of the tenant spoke with management company on different issue and complained about noise in basement. Mr. Catalic spoke with other managers in company and found that no one authorized any work in basement so they reported to NYPD. NYPD responded and found oil spill. its look like someone stole the oil tank and spilled oil on floor. FDNY Hazmat cleaned up spill and put contaminated material/oil into a barrel. Mr. Catalic has contacted County Oil to remove the barrel. he mentioned that no drains/sump in basement and no cracks observed in floor where spill occurred (about 20 ft diameter area). asked Mr. Catalic to submit color photographs of the impacted area to confirm no cracks in floor. 10:13 AM:- sent email to Mr. Catalic to submit a letter including observation about the condition of the basement floor and color pics of impacted area. email copied to Ms. Mirani and Mr. Jenny. 3:55 PM:- received email from Mr. Catalic with floor pics. 12/05/11-Hiralkumar Patel. 1:20 PM:- visited site. inspected basement. floor, where spill occurred, was found in good condition. no odors in basement. based on observations during the site visit, case closed."
Remarks: "concrete - clean up in progress"

Material:
Site ID: 458536
Operable Unit ID: 1208653
Operable Unit: 01
Material ID: 2205983
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 30.00
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported

COMMERCIAL BUILDING (Continued) **S111456719**

Oxygenate: Not reported

Tank Test:

Facility ID: 1110694
Facility Type: ER
DER Facility ID: 413006
Site ID: 458542
DEC Region: 2
Spill Date: 2011-12-01
Spill Number/Closed Date: 1110694 / 2011-12-02
Spill Cause: Human Error
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2011-12-02
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2011-12-02
Spill Record Last Update: 2011-12-02
Spiller Name: Not reported
Spiller Company: COMMERCIAL BUILDING
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: JOHN WILSON
Contact Phone: Not reported
DEC Memo: "duplicate spill - closed cross ref #1110688"
Remarks: "spill contained to basement area/clean up underway"

Material:
Site ID: 458542
Operable Unit ID: 1208659
Operable Unit: 01
Material ID: 2205990
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 30.00
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

COMMERCIAL BUILDING (Continued) **S111456719**

Tank Test:

Y120 **SPILL NUMBER 0330022** **NY Spills** **S106016612**
WSW **1406-8 BRYANT AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.233 mi.
1230 ft. **Site 2 of 2 in cluster Y**

Relative:
Higher

Actual:
70 ft.

SPILLS:

Facility ID:	0330022
Facility Type:	ER
DER Facility ID:	72916
Site ID:	78348
DEC Region:	2
Spill Date:	2003-07-25
Spill Number/Closed Date:	0330022 / 2003-09-02
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	CESAWYER
Referred To:	Not reported
Reported to Dept:	2003-07-29
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2003-07-29
Spill Record Last Update:	2003-09-02
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	RAYMOND FELICIANO
Contact Phone:	(718) 733-2965
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was SAWYER DDO SAWYER THE CLEANUP IS UNDERWAY. 8/11/03 Brookside contracted to do cleanup, soil samples taken 8/5/03. Project mgr.- Andrew Edgar 516-377-6300 End point samples to be taken either Thurs or Fri.8/14-15/03 9/2/03 Sawyer Reviewed laboratory results and since only one of the contaminants was above cleanup range (chrysene) sent no further action letter. Some soil manifest may follow. Closed."
Remarks:	"RECEIVED LAND FROM CITY AND WHEN THEY YANKED THE TANK THEY FOUND CONTAMINATED SOIL."

Material:

Site ID:	78348
Operable Unit ID:	881434
Operable Unit:	01
Material ID:	496520

SPILL NUMBER 0330022 (Continued) **S106016612**

Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

AD121 **CONSOLIDATED EDISON** **NY MANIFEST** **1009242571**
ESE **1249 ELDER AVE SB19348** **N/A**
1/8-1/4 **BRONX, NY**
0.234 mi.
1236 ft. **Site 1 of 2 in cluster AD**

Relative:
Higher

Actual:
42 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004117529
Facility Status:	Not reported
Location Address 1:	1249 ELDER AVE SB19348
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004117529
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address 1:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124602808

NY MANIFEST:

Document ID:	NYE1318059
Manifest Status:	Not reported
seq:	Not reported
Year:	2004
Trans1 State ID:	46235JM
Trans2 State ID:	Not reported
Generator Ship Date:	01/19/2004
Trans1 Recv Date:	01/19/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/20/2004
Part A Recv Date:	Not reported

CONSOLIDATED EDISON (Continued) **1009242571**

Part B Recv Date:	Not reported
Generator EPA ID:	NYP004117529
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980593
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00591
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

AA122 **1712 LONGFELLOW AVE** **NY Spills** **S102238734**
North **1712 LONGFELLOW AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.235 mi.
1240 ft. **Site 4 of 4 in cluster AA**

Relative:
Higher

Actual:
61 ft.

SPILLS:

Facility ID:	9512742
Facility Type:	ER
DER Facility ID:	246499
Site ID:	305153
DEC Region:	2
Spill Date:	1996-01-13
Spill Number/Closed Date:	9512742 / 1996-01-16
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1996-01-13
CID:	322
Water Affected:	Not reported

1712 LONGFELLOW AVE (Continued) **S102238734**

Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-01-13
Spill Record Last Update:	1998-01-27
Spiller Name:	HDFC CORP
Spiller Company:	HDFC CORPORATION
Spiller Address:	1712 LONGFELLOW AVE
Spiller City,St,Zip:	BRONX, ZZ
Spiller Company:	001
Contact Name:	HDFC CORP
Contact Phone:	Not reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE CLEANED BY OIL CO."
Remarks:	"defective gauge caused spill - top of tank cap was also off so as tank overfilled it came out the top - clean up crew on site now "

Material:

Site ID:	305153
Operable Unit ID:	1027075
Operable Unit:	01
Material ID:	356489
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	Gallons
Recovered:	5.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

AE123 **GETTY S/S #268 - GETTY PROPERTIES** **NY LTANKS S100494277**
South **1185 BRONX RIVER AVE** **NY Spills N/A**
1/8-1/4 **BRONX, NY**
0.236 mi.
1248 ft. **Site 1 of 3 in cluster AE**

Relative:
Higher

Actual:
20 ft.

LTANKS:

Site ID:	211852
Spill Number/Closed Date:	9209035 / 2007-05-04
Spill Date:	1992-11-04
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	0301
Investigator:	WXSUN

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

Referred To:	Not reported
Reported to Dept:	1992-11-04
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1992-11-05
Spill Record Last Update:	2007-05-04
Spiller Name:	Not reported
Spiller Company:	GETTY
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	201809
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 3/13/03 REASSIGNED FROM ROMMEL TO VOUGHT. 08/31/2005 - Feng - Project transferred from Vought to Feng. 10/19/2005 - Feng - File reviewed by Feng: Tank Closure Report, by Tyree, 11/1993. During 8/1993, ten (10) 550-gallon gasoline USTs were excavated and removed by Main Elmsford Company. Soil samples were collected. Environmental Site Investigation Report, by Tyree, 12/1993. During 10/1993, Tyree installed four (4) monitoring wells. no groundwater encountered. Levels of aromatic hydrocarbons detected in split spoon soil samples collected during drilling, exceeded NYSDEC Soil Guidance Values. Vapor Extraction Influence Pilot Test Report, by Tyree, 1/1995. During 1/1995, Tyree performed a Vapor Extraction Influence Pilot Test. Based upon findings of the vapor extraction influence pilot test a ROI of 15' can be achieved if a flow rate of 122 CFM at 20 of water is supplied to vapor extraction wells VW-1, VW-4, VW-5 and VW-7. Remedial Action Plan, by Tyree, 2/1995. Outlines design and construction details of the SVES to remediate soil contamination detected during removal of the former gasoline UST. SVES installed by Tyree, 4/1995. the SVES consists of six (6) 4-inch diameter vapor extraction wells which are individually manifolded to 2 diameter Schedule 40 PVC headers. The PVC headers are extended to a 12' squared concrete pad. The PV headers were then manifolded to a skid mounted SVE skid. The SVE skid consists of a Roots 5 hp positive displacement blower and is equiped with pressure and temperature switches, a vapor drop tank (coalescer) with high water level switch, and an integrated control panel. The SVE skid was started during 3/1996. Monitoring and gauging monthly on Vapor extraction wells VW-1 through VW-5, and VW-7 from the top of the well casings using a product/water interface probe. The SVES was inspected, monthly, during the 12/1998 through 2/1999 monitoring quarter. Semi Anuual Monitoring Report, by Tyree, 7/2003-12/2003. 6 monitoring wells on site, only 2 were sampled, the others wells were dry. groundwater flow southerly. Analyticals show 255.7ppb BTEX and MTBE below MDL in VW-1 (20.21' bg), 6409.9ppb BTEX and MTBE below MDL in VW-4 (19.05' bg). Semi Anuual Monitoring Report, by Tyree, 1/2004-6/2004. 6 monitoring wells on site, only 1 were sampled, the others wells were

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

dry. groundwater flow southerly. Analyticals show 4676.6ppb BTEX and MTBE below MDL in VW-4 (18.5' bg). Semi Anuual Monitoring Report, by Tyree, 7/2004-12/2004. 6 monitoring wells on site, only 1 were sampled, the others wells were dry. groundwater flow southerly. Analyticals show 1408.5ppb BTEX and MTBE below MDL in VW-4 (18.64' bg). 05/04/07-Sun:Based on the Subsurface Investigation Report, dated November 2006 ,all of the groundwater samples collected from the sampling event were non detect, indicating that the groundwater has not been impacted from this spill.No free product was detected in any monitoring wells. Based on 1/2/07 data, BTEX ranged from non-detect to 2.53 ppb, and MTBE ranged from non-detect to 42 ppb.Based on these low concentrations of BTEX and MTBE and continued downward trend in concentrations of BTEX and MTBE and Sensitive Receptor Survey conducted for this site, the spill is closed and NFA letter will be issued. (Sun) "

Remarks: "4 @ 550 GALS WILL REPAIR IN MORNING"

Material:

Site ID:	211852
Operable Unit ID:	975788
Operable Unit:	01
Material ID:	406103
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Pounds
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Site ID:	211852
Spill Tank Test:	1540807
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	Not reported
Test Method:	Unknown

Site ID:	358914
Spill Number/Closed Date:	0512577 / 2006-05-11
Spill Date:	2006-01-30
Spill Cause:	Tank Overfill
Spill Source:	Passenger Vehicle
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	0301
Investigator:	SMSANGES

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

Referred To:	Not reported
Reported to Dept:	2006-01-30
CID:	409
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2006-01-30
Spill Record Last Update:	2006-05-11
Spiller Name:	MIKE CARR
Spiller Company:	GETTY# 268
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller County:	001
Spiller Contact:	MIKE CARR
Spiller Phone:	(518) 369-7822
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	201809
DEC Memo:	"Closure document from Tyree attached Closed"
Remarks:	"1 CUP THAT HAS BEEN CLEANED UP. SPEEDY DRY PLACED ON SPILL."

Material:

Site ID:	358914
Operable Unit ID:	1116140
Operable Unit:	01
Material ID:	2106284
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	1.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

SPILLS:

Facility ID:	0810541
Facility Type:	ER
DER Facility ID:	201809
Site ID:	408067
DEC Region:	2
Spill Date:	2008-12-18
Spill Number/Closed Date:	0810541 / 2009-02-13
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

Reported to Dept:	2008-12-18
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2008-12-18
Spill Record Last Update:	2009-02-13
Spiller Name:	CARRIE WILSEY
Spiller Company:	GETTY 268
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	CARRIE WILSEY
Contact Phone:	(518) 369-7822
DEC Memo:	"Tyree report says: Gasoline was found in regular fill and waste oil was found in overfill bucket of AST. Operator cleaned both."
Remarks:	"CALLER STATES THAT DUE TO POOR HOUSE KEEPING LESS THAN A GALLON WAS SPILLED TO A FILL BUCKET, CLEAN UP WAS DONE."

Material:

Site ID:	408067
Operable Unit ID:	1164594
Operable Unit:	01
Material ID:	2155976
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.99
Units:	Gallons
Recovered:	.99
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0809157
Facility Type:	ER
DER Facility ID:	201809
Site ID:	406599
DEC Region:	2
Spill Date:	2008-11-13
Spill Number/Closed Date:	0809157 / 2008-11-18
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-11-13

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2008-11-13
Spill Record Last Update:	2008-11-18
Spiller Name:	MIKE CARR
Spiller Company:	GETTY
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	MIKE CARR
Contact Phone:	(518) 369-7822
DEC Memo:	"minor spill closed"
Remarks:	"Caller states a small amount of less than 1 gallon was in a spill box. Clean up was done."

Material:

Site ID:	406599
Operable Unit ID:	1163180
Operable Unit:	01
Material ID:	2154489
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0713291
Facility Type:	ER
DER Facility ID:	201809
Site ID:	395017
DEC Region:	2
Spill Date:	2008-03-17
Spill Number/Closed Date:	0713291 / 2008-03-17
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2008-03-17
CID:	444
Water Affected:	Not reported

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-03-17
Spill Record Last Update:	2008-03-17
Spiller Name:	MIKE CARR\\
Spiller Company:	GETTY#268
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR\\
Contact Phone:	(518) 369-7822 CELL
DEC Memo:	"minor spill - all cleaned"
Remarks:	"less then 1 gallon and all cleaned up"

Material:

Site ID:	395017
Operable Unit ID:	1151964
Operable Unit:	01
Material ID:	2142734
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0704838
Facility Type:	ER
DER Facility ID:	201809
Site ID:	385058
DEC Region:	2
Spill Date:	2007-07-30
Spill Number/Closed Date:	0704838 / 2007-08-01
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2007-07-30
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2007-07-30
Spill Record Last Update:	2007-08-01
Spiller Name:	MIKE CARR\\
Spiller Company:	GETTY#268
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR\\
Contact Phone:	(518) 369-7822
DEC Memo:	"No spill - pump shut down until repairs are made"
Remarks:	"CUSTOMER DRIVE OFF NO GAS TO GROUND:"

Material:

Site ID:	385058
Operable Unit ID:	1142341
Operable Unit:	01
Material ID:	2132570
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0702919
Facility Type:	ER
DER Facility ID:	201809
Site ID:	382738
DEC Region:	2
Spill Date:	2007-06-11
Spill Number/Closed Date:	0702919 / 2008-11-24
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2007-06-11
CID:	410
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2007-06-11
Spill Record Last Update:	2008-11-24
Spiller Name:	EVAN STANKUNAS
Spiller Company:	GETTY # 268
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY 10472
Spiller Company:	001
Contact Name:	EVAN STANKUNAS
Contact Phone:	(845) 731-9382 CELL
DEC Memo:	"See attached eDocs report. Hydraulic lift was removed. Endpoint soil samples were clean for VOCs and a couple of minor SVOC hits. Nothing large, OK to close."
Remarks:	"SPILL WAS BASED ON ANALYTICAL DATA:"

Material:

Site ID:	382738
Operable Unit ID:	1140123
Operable Unit:	01
Material ID:	2130171
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0700963
Facility Type:	ER
DER Facility ID:	201809
Site ID:	380356
DEC Region:	2
Spill Date:	2007-04-24
Spill Number/Closed Date:	0700963 / 2007-04-25
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2007-04-24
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported
UST Trust:	Not reported

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

Remediation Phase:	0
Date Entered In Computer:	2007-04-24
Spill Record Last Update:	2007-04-25
Spiller Name:	MIKE CARR
Spiller Company:	GETTY#268
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR
Contact Phone:	(518) 369-7822
DEC Memo:	"minor spill - all cleaned up"
Remarks:	"LESS THEN 1 PINT AND IS ALL CLEANED UP"

Material:

Site ID:	380356
Operable Unit ID:	1137836
Operable Unit:	01
Material ID:	2127794
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0612730
Facility Type:	ER
DER Facility ID:	201809
Site ID:	377649
DEC Region:	2
Spill Date:	2007-02-23
Spill Number/Closed Date:	0612730 / 2008-08-18
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2007-02-23
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2007-02-23
Spill Record Last Update:	2008-08-18

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

Spiller Name:	MIKE CARR
Spiller Company:	GETTY # 268
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY 10472
Spiller Company:	001
Contact Name:	MIKE CARR
Contact Phone:	(518) 369-7822
DEC Memo:	"Tyree submittal describes repairs made to system & cleanup - see eDocs"
Remarks:	"SPILL DUE TO SHEEN ON WATER IN TANK TOP SUMPLS, WASTE OIL ON INNERSTICIAL SPACE ON UST: VAC TRUCK SCHEDULED:"

Material:

Site ID:	377649
Operable Unit ID:	1135172
Operable Unit:	01
Material ID:	2125063
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	1.00
Resource Affected:	Not reported
Oxygenate:	Not reported
Site ID:	377649
Operable Unit ID:	1135172
Operable Unit:	01
Material ID:	2125064
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	Gallons
Recovered:	1.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0612649
Facility Type:	ER
DER Facility ID:	201809
Site ID:	377538
DEC Region:	2
Spill Date:	2007-02-21
Spill Number/Closed Date:	0612649 / 2007-03-14
Spill Cause:	Housekeeping
Spill Class:	Not reported
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2007-02-21
CID:	410

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2007-02-21
Spill Record Last Update:	2007-03-14
Spiller Name:	MIKE CARR
Spiller Company:	GETTY # 268
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY 10472
Spiller Company:	001
Contact Name:	MIKE CARR
Contact Phone:	(518) 369-7822
DEC Memo:	""
Remarks:	"ANSWER TO QUESTION IS NO: CLEANUP COMPLETE: MISSED BUCKET DURING CONTAINMENT':"

Material:

Site ID:	377538
Operable Unit ID:	1135070
Operable Unit:	01
Material ID:	2124959
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0604641
Facility Type:	ER
DER Facility ID:	201809
Site ID:	367653
DEC Region:	2
Spill Date:	2006-07-25
Spill Number/Closed Date:	0604641 / 2006-09-27
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2006-07-25
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-07-25
Spill Record Last Update:	2006-09-27
Spiller Name:	MIKE CARR
Spiller Company:	GETTY #268
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR
Contact Phone:	(518) 369-7822
DEC Memo:	"Staining throughout the station No cleanup conducted."
Remarks:	"STAINING AND CLEANED UP"

Material:

Site ID:	367653
Operable Unit ID:	1125558
Operable Unit:	01
Material ID:	2115079
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Facility ID:	0601534
Facility Type:	ER
DER Facility ID:	201809
Site ID:	363794
DEC Region:	2
Spill Date:	2006-05-10
Spill Number/Closed Date:	0601534 / 2006-11-03
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2006-05-10
CID:	409
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False

GETTY S/S #268 - GETTY PROPERTIES (Continued) **S100494277**

Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-05-10
Spill Record Last Update:	2006-11-03
Spiller Name:	MIKE CARR
Spiller Company:	GETTY 268
Spiller Address:	1185 BRONX RIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	001
Contact Name:	MIKE CARR
Contact Phone:	(518) 369-7822
DEC Memo:	"staining throughout station on cement"
Remarks:	"BOTH LESS THAN A GAL AND HAVE BEEN CLEANED UP."

Material:

Site ID:	363794
Operable Unit ID:	1121850
Operable Unit:	01
Material ID:	2111332
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	1.00
Resource Affected:	Not reported
Oxygenate:	Not reported
Site ID:	363794
Operable Unit ID:	1121850
Operable Unit:	01
Material ID:	2111331
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	1.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

AE124 **GETTY PETROLEUM CORP** **RCRA NonGen / NLR** **1000872182**
South **1185 BRONX RIVER AVE** **US AIRS** **NYD987002003**
1/8-1/4 **BRONX, NY 10472** **FINDS**
0.236 mi. **ECHO**
1248 ft. **Site 2 of 3 in cluster AE** **NY MANIFEST**

Relative:
Higher

Actual:
20 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	GETTY PETROLEUM CORP
Facility address:	1185 BRONX RIVER AVE BRONX, NY 10472-3101
EPA ID:	NYD987002003
Mailing address:	JERICHO TNPK JERICHO, NY 11735
Contact:	Not reported
Contact address:	JERICHO TNPK JERICHO, NY 11735
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	GETTY PETROLEUM CORP
Owner/operator address:	125 JERICHO TNPK JERICHO, NY 11735
Owner/operator country:	US
Owner/operator telephone:	516-338-6000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	GETTY PETROLEUM CORP
Owner/operator address:	125 JERICHO TNPK JERICHO, NY 11735
Owner/operator country:	US
Owner/operator telephone:	516-338-6000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

GETTY PETROLEUM CORP (Continued) **1000872182**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: GETTY PETROLEUM CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: GETTY PETROLEUM CORP
Classification: Not a generator, verified

Date form received by agency: 01/31/1994
Site name: GETTY PETROLEUM CORP
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

US AIRS MINOR:
Envid: 1000872182
Region Code: 02
Programmatic ID: AIR NY0000002600700174
Facility Registry ID: 110009481845
D and B Number: Not reported
Primary SIC Code: 5541
NAICS Code: 999999
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

GETTY PETROLEUM CORP (Continued) **1000872182**

US AIRS MINOR:

Region Code:	02
Programmatic ID:	AIR NY0000002600700174
Facility Registry ID:	110009481845
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1991-03-07 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

FINDS:

Registry ID: 110009481845

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

AIR MINOR

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region

GETTY PETROLEUM CORP (Continued) **1000872182**

that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000872182
Registry ID:	110009481845
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009481845

NY MANIFEST:

Country:	USA
EPA ID:	NYD987002003
Facility Status:	Not reported
Location Address 1:	1185 BRONX RIVERRD
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10472
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYD987002003
Mailing Name:	GETTY PETROLEUM
Mailing Contact:	JOSEPH CAPORICCI
Mailing Address 1:	1185 BRONX RIVER
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10472
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	5164882500

NY MANIFEST:

Document ID:	CTF0209355
Manifest Status:	C
seq:	Not reported
Year:	1994
Trans1 State ID:	XG2539
Trans2 State ID:	Not reported
Generator Ship Date:	02/22/1994
Trans1 Recv Date:	02/22/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	02/24/1994
Part A Recv Date:	/ /
Part B Recv Date:	03/09/1994
Generator EPA ID:	NYD987002003
Trans1 EPA ID:	NYD173735192
Trans2 EPA ID:	Not reported
TSDF ID 1:	CTD000604488
TSDF ID 2:	Not reported

GETTY PETROLEUM CORP (Continued) **1000872182**

Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

AE125 **GETTY # 268** **NY Spills** **S109583012**
South **1185 BRONXRIVER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.236 mi.
1248 ft. **Site 3 of 3 in cluster AE**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	0902005
Facility Type:	ER
DER Facility ID:	363135
Site ID:	414034
DEC Region:	2
Spill Date:	2009-05-19
Spill Number/Closed Date:	0902005 / 2009-05-26
Spill Cause:	Housekeeping
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2009-05-19
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Not reported

GETTY # 268 (Continued) **S109583012**

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-05-19
Spill Record Last Update:	2009-05-26
Spiller Name:	CARRIE WILSEY
Spiller Company:	GETTY # 268
Spiller Address:	1185 BRONXRIVER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	CARRIE WILSEY
Contact Phone:	(518) 369-7822
DEC Memo:	"minor spill - confined within the building."
Remarks:	"DUE TO POOR HOUSEKEEPING HALF A GALLON OF ANTIFREEZE AND WASTE OIL WAS FOUND ON THE CONCRETE BAY FLOOR. CLEAN UP WAS DONE."

Material:

Site ID:	414034
Operable Unit ID:	1170427
Operable Unit:	01
Material ID:	2162157
Material Code:	0043A
Material Name:	antifreeze
Case No.:	Not reported
Material FA:	Other
Quantity:	.50
Units:	Gallons
Recovered:	.50
Resource Affected:	Not reported
Oxygenate:	Not reported
Site ID:	414034
Operable Unit ID:	1170427
Operable Unit:	01
Material ID:	2162158
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

AF126 **BRONX RIVER** **NY Spills** **S107408359**
SSW **WESTCHESTER AVE/EDGEWATER** **N/A**
1/8-1/4 **BRONX, NY**
0.237 mi.
1252 ft. **Site 1 of 4 in cluster AF**

Relative:
Higher

Actual:
37 ft.

SPILLS:

Facility ID:	0506235
Facility Type:	ER
DER Facility ID:	298670
Site ID:	351408
DEC Region:	2

BRONX RIVER (Continued) **S107408359**

Spill Date:	2005-08-20
Spill Number/Closed Date:	0506235 / 2005-08-22
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. No DEC Response. No corrective action required.
SWIS:	0301
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2005-08-20
CID:	72
Water Affected:	BRONX RIVER
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2005-08-20
Spill Record Last Update:	2005-08-22
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	ANNMARIE RUNFOLA
Contact Phone:	(917) 743-7352
DEC Memo:	"8/22/05 - Austin - On 8/20, I spoke with Anne Marie Runfolo (sp?) of the Bronx River Alliance, who had called NYC Parks about a sheen along the western shoreline of the Bronx River, between the Cross Bronx X-way and Westchester Ave. (upland area is a City Park know as Concrete Plant Park.)She also indicated that there was a pipe discharging from the eastern shoreline of the river, across from the park. The pipeline was located at the northern parking lot of ABC Carpets, on Bronx River Ave. She had seen these events while on a canoe trip on the river. I then went to the site, and investigated the complaints. No sheen was observed in the river, but there was leaf matter floating on the water, indicating a storm sewer discharge from the storm event that had occurred on 8/19. I also observed the discharge on the eastern shoreline, which appeared momentarily, and then stopped. I went to the parking lot by ABC Carpet, but by them there was no floatables/foam from the discharge, so could not locate the pipe amongst the brushy and inacessible shoreline. Will refer latter complaint to DOW/DEP for outfall investigation. Spill closed - end "
Remarks:	"Oil slick found on shoreline of river, going into river with tide."

Material:

Site ID:	351408
Operable Unit ID:	1108926
Operable Unit:	01
Material ID:	2098901
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported

BRONX RIVER (Continued) **S107408359**

Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

AF127 **VAULT 1744** **NY Spills** **S107409212**
SSW **EDGEWATER RD AND WESTCHESTER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.237 mi.
1253 ft. **Site 2 of 4 in cluster AF**

Relative:
Higher

Actual:
37 ft.

SPILLS:
Facility ID: 0507685
Facility Type: ER
DER Facility ID: 300436
Site ID: 353141
DEC Region: 2
Spill Date: 2005-09-27
Spill Number/Closed Date: 0507685 / 2007-05-03
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: GDBREEN
Referred To: Not reported
Reported to Dept: 2005-09-27
CID: 77
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2005-09-27
Spill Record Last Update: 2007-05-03
Spiller Name: ERT DESK
Spiller Company: CON EDISON
Spiller Address: 4 IRVING PLACE
Spiller City,St,Zip: MANHATTAN, NY 10003
Spiller Company: 999
Contact Name: ERT DESK'
Contact Phone: (212) 580-8383
DEC Memo: "05/03/07 - See e-docs for Con Ed report detailing cleanup and closure. 161244. 27-Sep-2005 04:45 hrs. FOD Operating Supervisor, Bill Reschke (11649) while placing protective grounds on another location near V-1744, located e/s Edgewater Road 985' s/o Westchester Ave, Bronx, NY reports finding ~ 10 gallons of dielectric fluid has leaked out of an abandoned Pad Mounted transformer (V-1744) onto asphalt and soil. No fire/smoke is/was involved. No sewers/waterways were affected. There were no injuries. This is on the property of theTransit Mix Concrete Company that has gone out of business. An

VAULT 1744 (Continued) **S107409212**

area of asphalt ~ 15' x 75' is affected. Additional crews have spread absorbant speedi-dri over the entire area to absorb the oil. A puddle (25' x 15') of oil & water has gathered at the bottom of the hill. An 80' piece of absorbant boom has been deployed around the pool to contain it. A oil sample has been taken for PCB on chain of custudy (ee-04778). An environmental tag #43612 has been placed on the pad mount transformer. The clean up will continue as more crews are assembled at the start of the 7-3 shift. L Fischer 55784 "

Remarks: "ABANDONED TRANSFORMER, FAULTY EQUIPMENT. NO TO 5 QUESTION. CLEAN-UP IS IN PROGRESS. 161244."

Material:

Site ID:	353141
Operable Unit ID:	1110608
Operable Unit:	01
Material ID:	2100645
Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

AG128 **PRIVATE RESIDENCE** **NY Spills** **S110540359**
East **1529 EAST 172ND ST** **N/A**
1/8-1/4 **BRONX, NY**
0.238 mi.
1256 ft. **Site 1 of 2 in cluster AG**

Relative:
Higher

Actual:
51 ft.

SPILLS:

Facility ID:	1006964
Facility Type:	ER
DER Facility ID:	395350
Site ID:	440345
DEC Region:	2
Spill Date:	2010-09-28
Spill Number/Closed Date:	1006964 / 2011-02-02
Spill Cause:	Other
Spill Class:	Not reported
SWIS:	0301
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	2010-09-28
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False

PRIVATE RESIDENCE (Continued) **S110540359**

Remediation Phase:	0
Date Entered In Computer:	2010-09-28
Spill Record Last Update:	2011-02-02
Spiller Name:	VINNY LOVARI
Spiller Company:	UNKNOWN
Spiller Address:	1529 EAST 172ND ST
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	VINNY LOVARI
Contact Phone:	(718) 967-9424
DEC Memo:	"09/30/10-Hiralkumar Patel. 9:38 AM:- spoke with Vinny. he removed an old abandoned 550 gal UST from backyard. tank was completely empty. tank was 4 ft in diameter and tank top was about 2 ft deep. property is using gas heating system for long time and tank was removed as part of property transaction. fill line for the tank is at the curb line and has some stains around fill port. Vinny will remove fill line also. after removing tank, found some contamination at 6 ft depth (below tank bottom). property owned by two people: Deborah Morgan and Veronica Evans. 10:00 AM:- spoke with Aston Evans, husband of Veronica Evans. Mr. Evans mentioned that tank was cleaned and closed about two years ago. as per Mr. Evans, tank was removed about three weeks ago. 10:07 AM:- spoke with Vinny. he mentioned that they did started tank removal work about three weeks ago, but work was stopped as they were busy on other jobs. tank was removed in pieces due to space restrictions and last piece was removed yesterday. property owners: Deborah Morgan 1529 E 172nd Street Bronx, NY 10472 Ph. (718) 824-5427 email: dlmorgan@wlk.com Veronica Evans 3688 Peacepipe Court Clermont, FL 34711 Ph. (352) 432-2852 email: eronniev@aol.com no alternate address. other spill #: 0612670. spill was reported on 02/22/07 as 5 gal spilled due to defective gauge. case closed. 10:51 AM:- sent letter to Ms. Morgan and Ms. Evans requiring endpoint samples. letter emailed to Ms. Evans, Ms. Morgan and Vinny. 12/02/10-Hiralkumar Patel. 12:39 PM:- left message for Ms. Morgan. 12:40 PM:- spoke with Ms. Evans and asked her to submit cleanup report by the end of 12/10/10 to avoid any enforcement. 01/13/11-Hiralkumar Patel. received report from Vinny. report is not acceptable as conflicts between the text part and lab data and also unclear. 4:28 PM:- spoke with Aston Evans and informed him that the report submitted is unaccpetable. asked him to submit revised report. 4:35 PM:- sent email to Ms. Morgan and Ms. Evans requiring to submit a revised report by the end of 01/31/11. email copied to Vinny. 01/24/11-Hiralkumar Patel. 4:55 PM:- email sent to Ms. Morgan came back undelivered. 01/25/11-Hiralkumar Patel. 12:54 PM:- left message for Ms. Morgan informing her that the report submitted is incomplete and the department requires submission of complete detailed report. 02/01/11-Hiralkumar Patel. received revised report. based on submitted information, case closed."
Remarks:	"Caller reporting soil contamination after tank removal. Caller states they will be removing 4 barrells of soil. Clean up in progress."

Material:

Site ID:	440345
Operable Unit ID:	1190962
Operable Unit:	01
Material ID:	2186055
Material Code:	0001A
Material Name:	#2 fuel oil

PRIVATE RESIDENCE (Continued) **S110540359**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

AG129 **PRIVATE HOME** **NY Spills** **S108466171**
East **1529 E 172ND ST** **N/A**
1/8-1/4 **BRONX, NY**
0.238 mi.
1256 ft. **Site 2 of 2 in cluster AG**

Relative:
Higher

Actual:
51 ft.

SPILLS:

Facility ID:	0612670
Facility Type:	ER
DER Facility ID:	327101
Site ID:	377562
DEC Region:	2
Spill Date:	2007-02-22
Spill Number/Closed Date:	0612670 / 2007-05-30
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	rmpiper
Referred To:	Not reported
Reported to Dept:	2007-02-22
CID:	444
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2007-02-22
Spill Record Last Update:	2007-05-30
Spiller Name:	BOB LUCAS
Spiller Company:	PRIVATE HOME
Spiller Address:	1529 E 172ND ST
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	BOB LUCAS
Contact Phone:	(718) 991-8619
DEC Memo:	"Rene at PTC says there is a minor spill - They are in the process of cleaning up and will make some minor repairs. PTC will forward a writeup when the repair/cleanup work is done. 5/30/07- Minor spill. Cleaned. Closed."
Remarks:	"DEFECTIVE GAUGE AND IS CONTAINED AND IN PROCESS OF BEING CLEANED BY EASTMAN AND SONS"

PRIVATE HOME (Continued) **S108466171**

Material:

Site ID:	377562
Operable Unit ID:	1135092
Operable Unit:	01
Material ID:	2124985
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

130
ENE
1/8-1/4
0.238 mi.
1257 ft.

Relative:
Higher

Actual:
43 ft.

TANK LEAK IN REAR YARD **NY LTANKS** **S106385805**
1347 BOYNTON AVE **N/A**
BRONX, NY

LTANKS:

Site ID:	238140
Spill Number/Closed Date:	0400237 / 2006-01-12
Spill Date:	2004-04-08
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	0301
Investigator:	JMZALEWS
Referred To:	Not reported
Reported to Dept:	2004-04-08
CID:	444
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2004-04-08
Spill Record Last Update:	2006-03-20
Spiller Name:	CHAKRABORTY HIRONMOY
Spiller Company:	PRIVATE REIDENCE
Spiller Address:	1347 BOYNTON AVE
Spiller City,St,Zip:	BRONX, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	196147

TANK LEAK IN REAR YARD (Continued) **S106385805**

DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO 4/8/2004 Sangesland spoke to Mr. Ruben Carbrear, owner of 1349 Boynton Ave, Bronx. He says oil is coming through the ground from a leak on his neighbor's property at 1347 Boynton Ave. House at 1347 Boynton is in foreclosure and has had alot of Emergency Repair work done on it in the last 2 years by the city HPD. This house has an outdoor #2 oil tank standing in the back of the house. It looks like a new copper line going from the tank into the basement. The old copper line is discarded nearby. The area under this oil tank is saturated with oil and this oil has now migrated over the property line into the yard of 1349 Boynton. Access to the yard of 1349 Boynton is available by ringing the bell at #2B of 1349. Sangesland spoke to Deputy Inspector Harry Brown (718-579-6772) at the NYC- HPD. Mr. Brown was told that it appears that HPD contractors have done work on this site over the last several months which seems to have caused the spill problem. This area needs to be dug out, cleaned and then refilled and tank set up again. Mr. Brown said he would send an inspector to the site and if a spill was found, a contractor would be hired to conduct the cleanup. Sangesland requested that HPD contact the DEC to arrange a joint visit to the building to discuss the clean up. 4/13/2004 Sangesland spoke with HPD Harry Brown. He said an inspector did go to the site and did see an oil leak problem. The case was referred to the HPD Emergency Repairs dept. Contact is Persey Young 212-863-8747. A message was left at this number for Mr. Young. 4/23/2004 Sangesland spoke with Persey Young of HPD. He said a contract was awarded to clean up the site at 1347 Boynton. He didn't know why this work has not yet started. Sangesland asked Mr. Young to contact Ruben Carberear (owner of 1349) to tell him what work would be done and when it would be done. DEC needs to make contact with the HPD hired contractor to confirm that proper endpoint samples will be taken and a complete closure report will be submitted. 09/09/2005 - Changed DEC lead from Demeo to Zalewski. (Zalewski) 11/3/2005 - Spoke with Persey Young (HPD). He said that his records show that they inspected the site on May 12, 2004 and the spill was taken care of by the property owner. They closed the case on May 12, 2004. Placed a phone call to the original caller. He was NA. (Zalewski) 11/4/2005 - Placed another phone call to the original caller. He was NA. I was given his cellphone number. Tried cellphone. No answer. (Zalewski) 1/12/2006 - Placed a phone call to the original caller's cellphone. He confirmed that the new owner remediated the spill. He was satisfied with the cleanup. Based on the available information, no further action. (Zalewski) "

Remarks: "CALLER SAYS HIS NIEGHBORS OIL LINE IS BROKEN AND IS LEAKING ON HIS PROPERTY< WOULD LIKE SOMEONE TO CHECK OUT SOAKED IN SOIL: "

Material:

Site ID:	238140
Operable Unit ID:	882472
Operable Unit:	01
Material ID:	495024
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Pounds
Recovered:	.00

TANK LEAK IN REAR YARD (Continued) **S106385805**

Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

AF131 **WESTCHESTER OFF RAMP** **NY Spills** **S108636059**
SSW **SHERIDAN EXPRESSWAY** **N/A**
1/8-1/4 **BRONX, NY**
0.239 mi.
1263 ft. **Site 3 of 4 in cluster AF**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	0700426
Facility Type:	ER
DER Facility ID:	329261
Site ID:	379768
DEC Region:	2
Spill Date:	2007-04-13
Spill Number/Closed Date:	0700426 / 2007-04-13
Spill Cause:	Traffic Accident
Spill Class:	Not reported
SWIS:	0301
Investigator:	jbvought
Referred To:	Not reported
Reported to Dept:	2007-04-13
CID:	444
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2007-04-13
Spill Record Last Update:	2007-04-13
Spiller Name:	Not reported
Spiller Company:	CARDING SANITATION
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	ISABELLA CARDING
Contact Phone:	(718) 824-8246
DEC Memo:	"04/13/07-Vought-Off hours responder. Vought called and spoke to FF Sanacore and spill did enter catch basin and DEP notified. Spill cleaned using speedy dry. Small impact to drain but no adjacent waterways."
Remarks:	"GARBAGE TRUCK ROLLED OVER AND SPILLED DIESEL- STORM DRAIN HAS BEEN DIKED OFF"

Material:

Site ID:	379768
Operable Unit ID:	1137259
Operable Unit:	01
Material ID:	2127212
Material Code:	0008

WESTCHESTER OFF RAMP (Continued) **S108636059**

Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

AF132 **SHERATON EXPRESSWAY** **NY Spills** **S102446711**
SSW **SERVICE RD&WESTCHESTER AV** **N/A**
1/8-1/4 **BRONX, NY**
0.239 mi.
1263 ft. **Site 4 of 4 in cluster AF**

Relative:
Higher

Actual:
20 ft.

SPILLS:

Facility ID:	9611127
Facility Type:	ER
DER Facility ID:	137845
Site ID:	163422
DEC Region:	2
Spill Date:	1996-12-09
Spill Number/Closed Date:	9611127 / 1998-06-03
Spill Cause:	Traffic Accident
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	1996-12-09
CID:	211
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-12-09
Spill Record Last Update:	1998-06-03
Spiller Name:	Not reported
Spiller Company:	CON ED
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	NEW YORK, NY 10003-
Spiller Company:	001
Contact Name:	PAT MCHUGH
Contact Phone:	(212) 580-6763
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL "
Remarks:	"OVER TURNED BUCKET TRUCK CAUSED PRODUCT TO SPILL / CLEAN UP CREW ON WAY"

SHERATON EXPRESSWAY (Continued) **S102446711**

Material:

Site ID:	163422
Operable Unit ID:	1039156
Operable Unit:	01
Material ID:	566757
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

133
SSE
1/8-1/4
0.241 mi.
1273 ft.

Relative:
Higher

Actual:
22 ft.

AUTO REPAIR SHOP **NY Spills** **S111010799**
1452 WESTCHESTER AVE **N/A**
BRONX, NY

SPILLS:

Facility ID:	1100018
Facility Type:	ER
DER Facility ID:	401987
Site ID:	447383
DEC Region:	2
Spill Date:	2011-04-01
Spill Number/Closed Date:	1100018 / 2013-03-12
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	2011-04-01
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-04-01
Spill Record Last Update:	2013-03-12
Spiller Name:	ALANA BRANNON
Spiller Company:	AUTO REPAIR SHOP
Spiller Address:	1452 WESTCHESTER AVE
Spiller City,St,Zip:	BRONX, NY
Spiller Company:	999
Contact Name:	ALANA BRANNON

AUTO REPAIR SHOP (Continued) **S111010799**

Contact Phone: (212) 675-3225
DEC Memo: "DEC Piper spoke with Ilana at FLS. Waiting on analytical. Phase II done. Site was a former gas station with abandoned 550's. currently an active repair facility. 11/28/11- Envirotrac was contracted by the purchaser of the property to remediate the spill by removing the USTs and surrounding petroleum-impacted soil. \\ 3/11/13- DEC Piper received and reviewed closure report. Based on work to date, this spill is closed. See e-docs if warranted."
Remarks: "Gas leaking from tank on site. Location is a former gas station. Caller did well sampling for ground water and discovered contamination."

Material:
Site ID: 447383
Operable Unit ID: 1197539
Operable Unit: 01
Material ID: 2193844
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

134
SSW
1/8-1/4
0.241 mi.
1275 ft.

FBHC **NY UST U001834390**
1 WEST FARMS ROAD **NY Spills N/A**
BRONX, NY 10460

Relative: Higher

Actual: 39 ft.

UST:
Id/Status: 2-244635 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 593666.25000
UTM Y: 4520253.00000
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 9480
Affiliation Type: Facility Owner
Company Name: WEST FARMS NEIGHBORHOOD HOUSING DEV. FUND CO., INC
Contact Type: DIRECTOR
Contact Name: ROBERT DONOVAN
Address1: 1 WEST FARMS SQ PLAZA
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10460
Country Code: 001

FBHC (Continued) **U001834390**

Phone: (718) 589-4546
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

Site Id: 9480
Affiliation Type: Mail Contact
Company Name: WEST FARMS NEIGHBORHOOD
Contact Type: Not reported
Contact Name: HENG LY
Address1: HOUSING DEV. FUND CO., INC
Address2: 2751 GRAND CONCOURSE
City: BRONX
State: NY
Zip Code: 10468
Country Code: 001
Phone: (718) 367-3200
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

Site Id: 9480
Affiliation Type: Facility Operator
Company Name: FBHC
Contact Type: Not reported
Contact Name: WEST FARMS HOUSING DEV INC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 589-4546
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

Site Id: 9480
Affiliation Type: Emergency Contact
Company Name: WEST FARMS NEIGHBORHOOD HOUSING DEV. FUND CO., INC
Contact Type: Not reported
Contact Name: LABORN BAIZE
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (347) 614-0153
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

FBHC (Continued) **U001834390**

Tank Info:

Tank Number:	002
Tank ID:	11567
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	25000
Install Date:	06/01/1972
Date Tank Closed:	11/30/2012
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
A01 - Tank Internal Protection - Epoxy Liner
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	100
Tank ID:	11566
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	25000
Install Date:	06/01/1972
Date Tank Closed:	11/30/2012
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	04/14/2017

FBHC (Continued) **U001834390**

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
A01 - Tank Internal Protection - Epoxy Liner
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

SPILLS:

Facility ID:	9601923
Facility Type:	ER
DER Facility ID:	58917
Site ID:	60333
DEC Region:	2
Spill Date:	1996-05-08
Spill Number/Closed Date:	9601923 / 1996-05-09
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	KATZ
Referred To:	Not reported
Reported to Dept:	1996-05-08
CID:	323
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-05-08
Spill Record Last Update:	1996-05-24
Spiller Name:	UNKNOWN
Spiller Company:	Unknown
Spiller Address:	UNKNOWN
Spiller City,St,Zip:	UNKNOWN, NY
Spiller Company:	999
Contact Name:	SAL MAZELLA
Contact Phone:	(718) 579-1324
DEC Memo:	""
Remarks:	"FIRE DEPT ON SCENE ATTEMPTING FIND THE SOURCE OF THE SPILL. IN THE BASEMENT OF THE RESIDENCE."

Material:

Site ID:	60333
Operable Unit ID:	1029520
Operable Unit:	01
Material ID:	351718

FBHC (Continued) **U001834390**

Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

AB135 **CON EDISON** **NY MANIFEST** **S117066570**
NW **1565 VYSE AV** **N/A**
1/8-1/4 **BRONX, NY 10461**
0.244 mi.
1288 ft. **Site 3 of 4 in cluster AB**

Relative:
Higher

Actual:
65 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004592374
Facility Status:	Not reported
Location Address 1:	1565 VYSE AV
Code:	BP
Location Address 2:	SB12254
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10461
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NYP004592374
Mailing Name:	CON EDISON
Mailing Contact:	CON EDISON
Mailing Address 1:	4 IRVING PL
Mailing Address 2:	15TH FL
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

NY MANIFEST:

Document ID:	Not reported
Manifest Status:	Not reported
seq:	Not reported
Year:	2014
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/10/2014
Trans1 Recv Date:	07/10/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2014
Part A Recv Date:	Not reported

CON EDISON (Continued) **S117066570**

Part B Recv Date:	Not reported
Generator EPA ID:	NYP004592374
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD991291105
TSDF ID 2:	Not reported
Manifest Tracking Number:	002503597GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	120
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

AB136 **CON EDISON** **NY MANIFEST** **S117319431**
NW **1571 VYSE AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.245 mi.
1294 ft. **Site 4 of 4 in cluster AB**

Relative:
Higher

Actual:
65 ft.

NY MANIFEST:

Country:	USA
EPA ID:	NYP004672010
Facility Status:	Not reported
Location Address 1:	1571 VYSE AVE
Code:	BP
Location Address 2:	SB 12254
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	Not reported

CON EDISON (Continued) **S117319431**

Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYP004672010
Mailing Name: CON EDISON
Mailing Contact: CON EDISON
Mailing Address 1: 4 IRVING PL 15TH FL
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2124603770

NY MANIFEST:
Document ID: Not reported
Manifest Status: Not reported
seq: Not reported
Year: 2014
Trans1 State ID: NJD003812047
Trans2 State ID: NJD003812047
Generator Ship Date: 10/03/2014
Trans1 Recv Date: 10/03/2014
Trans2 Recv Date: 10/06/2014
TSD Site Recv Date: 10/06/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004672010
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID 1: NJD991291105
TSDF ID 2: Not reported
Manifest Tracking Number: 002564146GBF
Import Indicator: N
Export Indicator: N
Discr Quantity Indicator: N
Discr Type Indicator: N
Discr Residue Indicator: N
Discr Partial Reject Indicator: N
Discr Full Reject Indicator: N
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: H110
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 125
Units: P - Pounds
Number of Containers: 1
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1

CON EDISON (Continued) **S117319431**

Waste Code:	D008
Waste Code 1_2:	Not reported
Waste Code 1_3:	Not reported
Waste Code 1_4:	Not reported
Waste Code 1_5:	Not reported
Waste Code 1_6:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_MANIFEST: detail in the EDR Site Report.

AD137 **ROADWAY** **NY Spills** **S111317680**
ESE **1252 ELDER AVE** **N/A**
1/8-1/4 **BRONX, NY**
0.248 mi.
1311 ft. **Site 2 of 2 in cluster AD**

Relative:
Higher

Actual:
48 ft.

SPILLS:

Facility ID:	1108703
Facility Type:	ER
DER Facility ID:	410988
Site ID:	456444
DEC Region:	2
Spill Date:	2011-10-11
Spill Number/Closed Date:	1108703 / 2012-01-12
Spill Cause:	Other
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
SWIS:	0301
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2011-10-11
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-10-11
Spill Record Last Update:	2012-01-12
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Company:	Not reported
Contact Name:	ERT
Contact Phone:	(212) 580-8383
DEC Memo:	"Asbestos found in excavation around pipes. 1/12/12 - Austin - Analysis of the material found that it neither contained Asbestos Containing Material or PCBs - The electrical service line was abandoned in place, and Con Ed reced the line to the customer - See eDocs files for further details - Spill closed - end"
Remarks:	""

ROADWAY (Continued) **S111317680**

Material:

Site ID:	456444
Operable Unit ID:	1206580
Operable Unit:	01
Material ID:	2203691
Material Code:	0026A
Material Name:	asbestos
Case No.:	01332214
Material FA:	Hazardous Material
Quantity:	1.00
Units:	Pounds
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

138
NNE
1/8-1/4
0.249 mi.
1317 ft.

SERVICE BOX # 22971
1745 WEST FARMS RD
BRONX, NY

NY Spills **S116554108**
N/A

Relative:
Higher

Actual:
19 ft.

SPILLS:

Facility ID:	1400071
Facility Type:	ER
DER Facility ID:	448185
Site ID:	493295
DEC Region:	2
Spill Date:	2014-04-02
Spill Number/Closed Date:	1400071 / 2014-05-15
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	0301
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2014-04-02
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2014-04-02
Spill Record Last Update:	2014-05-15
Spiller Name:	Not reported
Spiller Company:	3RD PARTY, UNKNWON
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	ERT

SERVICE BOX # 22971 (Continued) **S116554108**

Contact Phone: 2125808383
DEC Memo: "5/15/14 - Austin - 1/2 gal motor oil leaked from a 3rd party's vehicle into a Con Ed service box on the street - Con Ed contained and cleaned up the spill, and the vehicle was taken no for repairs - See D2 files for further information - Spill closed -end "
Remarks: "2Qts in service box, unknown source. Clean up pending."

Material:
Site ID: 493295
Operable Unit ID: 1242800
Operable Unit: 01
Material ID: 2243373
Material Code: 0015
Material Name: motor oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .50
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

AC139 **VAULT 1910** **NY Spills** **S106017178**
SE **EVERGREEN AVE/WESTCHESTER** **N/A**
1/8-1/4 **BRONX, NY**
0.250 mi.
1319 ft. **Site 3 of 3 in cluster AC**

Relative:
Higher

Actual:
24 ft.

SPILLS:
Facility ID: 0305206
Facility Type: ER
DER Facility ID: 220527
Site ID: 270893
DEC Region: 2
Spill Date: 2003-08-16
Spill Number/Closed Date: 0305206 / 2003-09-19
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: KMFOLEY
Referred To: Not reported
Reported to Dept: 2003-08-16
CID: 216
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2003-08-16
Spill Record Last Update: 2003-09-22

VAULT 1910 (Continued) **S106017178**

Spiller Name:	Not reported
Spiller Company:	CON EDISON
Spiller Address:	Not reported
Spiller City,St,Zip:	NEW YORK, NY 10003
Spiller Company:	001
Contact Name:	KEVIN MCCARDLE
Contact Phone:	(212) 580-6763
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was FOLEY Con Ed e2mis #149826: 16-Aug-2003 06:41 Snr Field Oper D.Mullan 20275 reports while on location for fault locating on Fdr 7X92 discovered 4 gallons of dielectric oil on 100 galons of water. Env tag 37101 was placed and a pcb sample was taken on a CC 1975. Cleanup pending sample results. Aroclor 1242 < 1.0 ppm EPA 608/8082 Aroclor 1254 < 1.0 ppm EPA 608/8082 Aroclor 1248 < 1.0 ppm EPA 608/8082 Aroclor 1260 22.8 ppm EPA 608/8082 TOTAL PCB 23 ppm Approval Status: APPROVED Approved By: Edward Chin Title: SUPERVISOR --End of Report-- Search for Results at: http://q137lims/lims 28-AUG-2003 13:40 Environemental Flush Mech A O. Negron 18400 and Environemental Flush Mech A T. Brown 44432 report cleanup complete. Transformer drained and removed. 100 Gallons of non-PCB liquid waste was removed from the structure by CFS tanker to be transported to Astoria WWTP. 1200 pounds of non-hazardous solid waste was removed by flush truck to be transported to Hellgate flush pit. No sewer connection in structure. Structure was double washed and rinsed. Cleanup complete. Environemental Yellow Tag removed."
Remarks:	"SPILL WILL BE CLEANED UP AFTER TRANSFORMER IS REMOVED CON EDISON REF # 149826 "

Material:

Site ID:	270893
Operable Unit ID:	871903
Operable Unit:	01
Material ID:	502467
Material Code:	0020A
Material Name:	transformer oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	4.00
Units:	Gallons
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

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140 South 1/4-1/2 0.374 mi. 1976 ft.

Relative: Higher

Actual: 12 ft.

SPECIALTY MOTOR CARS INC **NY SWF/LF** **S108146132**
1125 BRONX RIVER AVE **N/A**
BRONX, NY 10472

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7188933333
Owner Name:	Specialty Motor Cars Inc
Owner Type:	Private

SPECIALTY MOTOR CARS INC (Continued) **S108146132**

Owner Address:	1125 Bronx River Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 10472
Owner Email:	Not reported
Owner Phone:	7188933333
Contact Name:	Kinstantino Pashos
Contact Address:	1125 Bronx River Avenue
Contact Addr2:	Not reported
Contact City,St,Zip:	Bronx, NY 10472
Contact Email:	Not reported
Contact Phone:	7188933333
Activity Desc:	Vehicle Dismantling Facility
Activity Number:	[7069206]
Active:	No
East Coordinate:	594160
North Coordinate:	4520064
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

141
NNW
1/4-1/2
0.446 mi.
2353 ft.

1800 SOUTHERN BOULEVARD **NY BROWNFIELDS** **S109321475**
1776-1778 AND 1800-1808 SOUTHERN BOULEVARD **N/A**
BRONX, NY 10460

Relative:
Higher

Actual:
66 ft.

BROWNFIELDS:

Program:	BCP
Site Code:	402262
Acres:	0.27
HW Code:	C203046
SWIS:	0301
Town:	New York City
Record Added Date:	08/05/2008
Record Updated Date:	12/12/2012
Update By:	RXSCHICK
Site Description:	Location This site is located at 1800 Southern Boulevard in the Borough of the Bronx, New York City. This is an urban area. Site Features The site is approximately 0.27 acres in area and is a triangular shaped parcel of land. The 174th Street MTA Station is located above this intersection (elevated tracks). Current Zoning Uses The site is zoned for commercial use. The surrounding area is a mixture of commercial, recreational and residential uses. Historical Uses Prior to remediation, beginning sometime between 1927 and 1940, the site was occupied at various times by a gasoline filling station and an auto repair shop/car wash. The car wash operation closed in 1993 and the service station closed in 2003. BP-Amoco was operating the station at the time of closure in 2003. In July of 2003, BP arranged for the removal of four 4,000-gallon underground storage tanks (USTs), five dispensers and associated piping. An investigation performed by Delta prior to the UST removal, confirmed that groundwater was significantly impacted with constituents of gasoline as well. The results of this investigation resulted in the assignment of NYSDEC Spill Number 02-12264. A remedial investigation performed by Roux Associates in 2008 confirmed that soil, groundwater and soil

1800 SOUTHERN BOULEVARD (Continued) **S109321475**

vapors were contaminated with petroleum-related VOCs in excess of the NYSDEC remedial objectives and groundwater standards. SB 1800 LLC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in May 2009, to investigate and remediate the site. Site Geology and Hydrogeology The Site contains shallow occurring bedrock (approximately 24 feet bls) that was directly overlain by weathered rock and glacial deposits consisting of a mix of sand, silt, and clay in varying thickness. Groundwater at the Site ranged in depth from approximately 6 to 10 feet bls. It was determined that groundwater flows in a northwesterly direction, perpendicular to the long axis of the site. The project consists of construction of a ten-story low-income housing/mixed use development. The off-site aspect of this project will be monitored/remediated under spill number 0212264. There is a fully executed Brownfield Cleanup Agreement for this site. The Remedial Action Work Plan (RAWP) and the Remedial Investigation Report (RIR) were approved in August 2009. Remedial Construction started in September 2010. The Final Engineering Report (FER) was submitted in December 2011. 12/23/11-the Department signed the Certificate of Completion for this site.

Env Problem:	Nature and Extent of Contamination: Prior to remediation A Remedial Investigation (RI) was completed in July 2008. The investigation found contamination in soil, groundwater, and soil vapor. Contaminants in soil which exceeded Part 375 Unrestricted Soil Cleanup Objectives include the VOCs (ethylbenzene 77 mg/kg and 1,2,4 trimethylbenzene at 310 mg/kg), SVOCs (naphthalene at 25 mg/kg), and metals (mercury at 0.7 mg/kg and lead at 580 mg/kg). Contaminants in groundwater which exceed groundwater standards include VOCs (Benzene at 960 ug/L), SVOCs (naphthalene at 650 ug/L, and metals (manganese at 8,700 ug/L and lead at 340 ug/L). Elevated levels of VOCs were also detected in soil vapor samples (xylenes at 43 ug/m3, as well as numerous other VOC compounds). This site was determined to pose a significant threat to the human health and the environment. The Remedial Investigation Report (RIR) and Remedial Action Work Plan (RAWP) were both approved in August 2009. Remedial Action started in September 2010: Post Remediation No contamination remains at the Site. The Final Engineering Report (FER) was submitted in December 2011.
Health Problem:	The remedy has removed all site-related contamination from the property, thereby eliminating all potential human exposure pathways at the site.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	5/29/2009 3:14:00 PM
Record Upd:	6/25/2009 4:00:00 PM
Updated By:	MOBARRIE
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	SOBRO DEVELOPMENT CORPORATION

1800 SOUTHERN BOULEVARD (Continued) **S109321475**

Owner Address:	555 BERGEN AVENUE
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10455
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	COLBERT NEMBHARD
Owner Company:	THE NEW YORK PUBLIC LIBRARY
Owner Address:	MORRISON BRANCH LIBRARY
Owner Addr2:	610 EAST 169TH STREET
Owner City,St,Zip:	BRONX, NY 10456
Owner Country:	United States of America
Own Op:	Applicant/Requestor
Sub Type:	10
Owner Name:	Michael Callaghan
Owner Company:	SB 1800 LLC
Owner Address:	100 Park Avenue
Owner Addr2:	Suite 1600
Owner City,St,Zip:	New York, NY 10017
Owner Country:	United States of America
HW Code:	C203046
Waste Type:	BENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	BENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	NICKEL
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	NICKEL
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	TOLUENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046

1800 SOUTHERN BOULEVARD (Continued) **S109321475**

Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	ZINC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	XYLENE (MIXED)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	XYLENE (MIXED)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	SODIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	ARSENIC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	ETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	ETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	MTBE (METHYL-TERT-BUTYL ETHER)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	ETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	BERYLLIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	MERCURY

1800 SOUTHERN BOULEVARD (Continued) **S109321475**

Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	MANGANESE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	COPPER
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203046
Waste Type:	COPPER
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	W2-1133-09-03
Cross Ref Type Code:	23
Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	5/28/2009 10:09:00 AM
Record Updated:	5/28/2009 10:09:00 AM
Updated By:	MOBARRIE
Crossref ID:	0212264
Cross Ref Type Code:	01
Cross Ref Type:	Spill No.
Record Added Date:	6/25/2009 2:19:00 PM
Record Updated:	6/25/2009 2:19:00 PM
Updated By:	MOBARRIE

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142 **1899-1905 WEST FARMS ROAD** **NY INST CONTROL** **S116041501**
NNE **1899-1905 WEST FARMS ROAD** **NY BROWNFIELDS** **N/A**
1/4-1/2 **BRONX, NY 10460**
0.480 mi.
2536 ft.

Relative:
Higher

Actual:
29 ft.

INST CONTROL:

Site Code:	488955
Control Name:	Ground Water Use Restriction
HW Code:	C203070
Control Code:	08
Control Type:	INST
Dt record added:	07/11/2016
Dt rec updated:	12/28/2016
Updated By:	RECURLEY
Site Code:	488955
Site Description:	Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.

Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

Site Code: 488955
Control Name: Landuse Restriction
HW Code: C203070
Control Code: 25
Control Type: INST
Dt record added: 07/11/2016
Dt rec updated: 12/28/2016
Updated By: RECURLEY
Site Code: 488955
Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.

Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Updated By: RECURLEY

Site Code: 488955
Control Name: Monitoring Plan
HW Code: C203070
Control Code: 31
Control Type: INST
Dt record added: 07/11/2016
Dt rec updated: 12/28/2016
Updated By: RECURLEY
Site Code: 488955
Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.
Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.
Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.
Dump: False
Structure: False

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

Site Code: 488955
Control Name: Site Management Plan
HW Code: C203070
Control Code: 32
Control Type: INST
Dt record added: 07/11/2016
Dt rec updated: 12/28/2016
Updated By: RECURLEY
Site Code: 488955
Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.
Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards.

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.

Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.
Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

Site Code: 488955
Control Name: IC/EC Plan
HW Code: C203070
Control Code: 34
Control Type: INST
Dt record added: 07/11/2016
Dt rec updated: 12/28/2016
Updated By: RECURLEY
Site Code: 488955
Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.

Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

Site Code: 488955
Control Name: Environmental Easement
HW Code: C203070
Control Code: J
Control Type: INST
Dt record added: 07/11/2016
Dt rec updated: 12/28/2016
Updated By: RECURLEY
Site Code: 488955
Site Description: Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.

Env Problem: Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.

Health Problem: Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/13/2013 10:34:00 AM
Record Upd: 10/26/2016 9:20:00 AM
Updated By: MJKOMORO
Own Op: On-Site Operator
Sub Type: E
Owner Name: Tom Ciano
Owner Company: Monadnock Construction Inc.
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Own Op: Document Repository
Sub Type: NNN
Owner Name: Omisha Covington
Owner Company: New York Public Library - West Farms Branch
Owner Address: 2085 Honeywell Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10460
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Ave, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001
Owner Country: United States of America
Own Op: Owner
Sub Type: E
Owner Name: Robert Frost
Owner Company: 1903 West Farms, LLC
Owner Address: 220 Fifth Avenue, 19th Floor
Owner Addr2: Not reported
Owner City,St,Zip: New York, NY 10001-7708
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Nicholas Lembo
Owner Company: Compass V LLC
Owner Address: 155 3rd Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11231
Owner Country: United States of America
HW Code: C203070
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: 1,2,4-TRIMETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: NAPHTHALENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: N-PROPYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: cis-1,2-Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: ETHYLBENZENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203070
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: 2016060800191001
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 7/11/2016 9:00:00 AM
Updated By: MJKOMORO
Crossref ID: 2-612624
Cross Ref Type Code: 18
Cross Ref Type: PBS No.
Record Added Date: 11/7/2016 12:31:00 PM
Record Updated: 11/7/2016 12:31:00 PM
Updated By: JAAVERSA
Crossref ID: C203070-02-14
Cross Ref Type Code: 23
Cross Ref Type: Agreement/Consent Order Number
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY
Crossref ID: 2016000203290
Cross Ref Type Code: 25
Cross Ref Type: County Recording Identifier
Record Added Date: 7/11/2016 9:00:00 AM
Record Updated: 9/7/2016 11:47:00 AM
Updated By: MJKOMORO
Crossref ID: 2-12-1014
Cross Ref Type Code: 26
Cross Ref Type: Agreement/Consent Order Date
Record Added Date: 10/20/2016 8:48:00 AM
Record Updated: 10/20/2016 9:29:00 AM
Updated By: RECURLEY

BROWNFIELDS:
Program: BCP
Site Code: 488955

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Acres:	0.637
HW Code:	C203070
SWIS:	0301
Town:	New York City
Record Added Date:	11/13/2013
Record Updated Date:	12/14/2016
Update By:	MJKOMORO
Site Description:	Location: The site is located in an urban area on Rodman Place in the Bronx, NY. The site lies along the west side of West Farms Road between Rodman Place and the Cross Bronx Expressway Service Road North. Site Features: The site is currently vacant. Prior to remediation, a single-story masonry building with a concrete slab-on-grade foundation with a partial basement was on the site. Metal storage containers, a wooden shed, and a semi-covered storage area were located off the northwest exterior of the building. Current Zoning and Land Use: The property is zoned for residential use and is assigned Residential District R8X zoning. The surrounding area is mostly residential with a marble business and hotel in the next block. The site was most recently leased by a construction company for construction supply storage and a janitorial supply company for soap and paper product storage. The undeveloped section of the property was recently used as an outdoor storage area for dumpsters and empty drums. Past Use of the Site: The 1899 West Farms Road portion of the site operated as a dry-cleaning facility from 1977-1996 and a towing/collision company from 1999-2001. The 1903-1905 West Farms Road portion operated as an auto repair garage from 1924-1986 and as a steel door manufacturing facility from 1989-2005. Site Geology and Hydrogeology: Prior to site remediation, the site was underlain with intermixed layers of brown and orange silts and sands, brown/black clays, with varying amounts of gravels, cobbles, mica, and schist. Bedrock exists at depths between 1.0 and 14.0 feet below ground surface. There was limited shallow groundwater (approximately 8 feet below grade in the east section, but only 2 feet below grade in the southern section) in the area due to the shallow bedrock. The general flow direction is to the east-southeast towards the Bronx River.
Env Problem:	Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were petroleum related compounds and metals in soil (ethylbenzene, lead, mercury). Tetrachloroethylene (PCE) was found in groundwater just above standards. Trichloroethylene (TCE) and cis-1,2 Dichloroethene were found in soil vapor at the site. All site-related contamination was removed. All soil was removed above bedrock. Six underground tanks were also removed along with associated contaminated soil. Groundwater was treated using in-situ chemical oxidation. Indoor air sampling in the new building will occur to evaluate the potential for soil vapor intrusion (SVI). A Site Management Plan and Easement are in place and will remain in place until the SVI evaluation is complete.
Health Problem:	Remedial actions are complete and measures are in place to control the potential for coming in contact with residual contamination remaining at the site.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	11/13/2013 10:34:00 AM
Record Upd:	10/26/2016 9:20:00 AM
Updated By:	MJKOMORO
Own Op:	On-Site Operator
Sub Type:	E
Owner Name:	Tom Ciano
Owner Company:	Monadnock Construction Inc.
Owner Address:	155 3rd Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11231
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Omisha Covington
Owner Company:	New York Public Library - West Farms Branch
Owner Address:	2085 Honeywell Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Bronx, NY 10460
Owner Country:	United States of America
Own Op:	Applicant/Requestor
Sub Type:	P03
Owner Name:	Robert Frost
Owner Company:	1903 West Farms, LLC
Owner Address:	220 Fifth Ave, 19th Floor
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10001
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	E
Owner Name:	Robert Frost
Owner Company:	1903 West Farms, LLC
Owner Address:	220 Fifth Avenue, 19th Floor
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10001-7708
Owner Country:	United States of America
Own Op:	Applicant/Requestor
Sub Type:	P03
Owner Name:	Nicholas Lembo
Owner Company:	Compass V LLC
Owner Address:	155 3rd Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11231
Owner Country:	United States of America
HW Code:	C203070
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	1,2,4-TRIMETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Waste Code:	Not reported
HW Code:	C203070
Waste Type:	N-PROPYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	XYLENE (MIXED)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	cis-1,2-Dichloroethene
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	ETHYLBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	C203070
Waste Type:	tetrachloroethene (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	2016060800191001
Cross Ref Type Code:	25
Cross Ref Type:	County Recording Identifier
Record Added Date:	7/11/2016 9:00:00 AM
Record Updated:	7/11/2016 9:00:00 AM
Updated By:	MJKOMORO
Crossref ID:	2-612624
Cross Ref Type Code:	18
Cross Ref Type:	PBS No.
Record Added Date:	11/7/2016 12:31:00 PM
Record Updated:	11/7/2016 12:31:00 PM
Updated By:	JAAVERSA
Crossref ID:	C203070-02-14
Cross Ref Type Code:	23
Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	10/20/2016 8:48:00 AM
Record Updated:	10/20/2016 9:29:00 AM
Updated By:	RECURLEY
Crossref ID:	2016000203290
Cross Ref Type Code:	25

1899-1905 WEST FARMS ROAD (Continued) **S116041501**

Cross Ref Type:	County Recording Identifier
Record Added Date:	7/11/2016 9:00:00 AM
Record Updated:	9/7/2016 11:47:00 AM
Updated By:	MJKOMORO
Crossref ID:	2-12-1014
Cross Ref Type Code:	26
Cross Ref Type:	Agreement/Consent Order Date
Record Added Date:	10/20/2016 8:48:00 AM
Record Updated:	10/20/2016 9:29:00 AM
Updated By:	RECURLEY

143
SW
1/2-1
0.518 mi.
2737 ft.

Relative:
Higher

Actual:
62 ft.

LUCKY CLEANERS **NY SHWS** **1004565965**
1120 WESTCHESTER AVENUE **RCRA NonGen / NLR** **NY0000132795**
BRONX, NY 10459 **ICIS**
FINDS
ECHO
NY MANIFEST

SHWS:

Program:	HW
Site Code:	513986
Classification:	Significant threat to the public health or environment - action required.
Region:	2
Acres:	0.021
HW Code:	203083
Record Add:	09/21/2015
Record Upd:	08/11/2016
Updated By:	BXANDERS
Site Description:	Location: The 900 square foot site is located at 1120 Westchester Avenue in Bronx County, NY in an urban area. Site Features: The site is located at 1120 Westchester Avenue, Bronx, New York. According to the New York City Department of Buildings the site is listed as block 2750 and lot 11. Records indicated that the subject building was built in approximately 1922. The building is a two story brick structure with a retail wine and liquor store currently occupying the first floor and one residential apartment on the second floor. The building occupies the entire lot, which is served by public water supply. Current Zoning and Land Use: The site is bordered by mixed use residential and retail properties on all three sides and Westchester Ave in front (to the north). Past Use of the Site: According to Sanborn History Maps, the subject property was vacant from the 1890s to the 1910s. There is no information regarding property use from the 1910s until the 1950s. The property was then used for both a retail store (including a drycleaner) and residential from 1950 to the present day. The Phase II Report did not note for how long the drycleaner operated on the property. Site Geology and Hydrogeology: The subsurface lithology encountered during the investigation consisted of brown fine silt-sand with some gravel. The site topography is generally flat and is situated approximately fifty (50) feet above mean sea level. Refusal due to competent bedrock was encountered at approximately three (3) feet below grade in the basement and twenty-two (22) feet below grade in the sidewalk area. Based upon a review of a groundwater contour map for the area it is anticipated the regional groundwater flow is from the west to the east towards the Bronx River.
Env Problem:	Nature and Extent of Contamination: Preliminary investigation results indicate the site is contaminated with volatile organic compounds

LUCKY CLEANERS (Continued) **1004565965**

(VOCs). Soil The analytical results for the soil samples were compared to the unrestricted use soil cleanup objectives (SCOs) listed in the NYSDEC CP-51 and NYCRR Part 375-6.8(a). The maximum tetrachloroethene (PCE) concentration in soil was 100 parts per million (ppm), at a depth of 0-3 below grade (SB-1B). A maximum observed xylene concentration of 2.7 ppm, and 1,2,4-trimethylbenzene concentration of 7 ppm were detected at depth range of 0 -3 in SB-3. All other analytes are below unrestricted use SCOs. Groundwater Not sampled due to drilling refusal. Soil Vapor Analytical results of soil vapor samples were compared to NYSDOH sub-slab guidelines. The maximum tetrachloroethene (PCE) sample concentration was 125,000 ug/m3 at a SSV-1. The maximum trichloroethene (TCE) concentration of 179 ug/m3 was observed at SSV-1. The corresponding indoor air concentration of PCE was 196 g/m3 at IA-1, located in the basement of the building; and IA-2 at 45.8 g/m3, located on the first floor in the liquor store.

Health Problem:	People are not drinking the groundwater because the area is served by a public water supply that is not affected by this contamination. Since the site is covered by pavement and the building basement has a concrete floor, people should not come into direct contact with site-related soil contamination unless the pavement, building, or basement floor is disturbed. Volatile organic compounds in the soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Environmental sampling has identified impacts associated with soil vapor intrusion at the on-site building and actions are recommended to address exposure. In addition, environmental sampling is recommended to determine if soil vapor intrusion is a concern for off-site buildings.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	9/21/2015 1:00:00 PM
Record Upd:	5/17/2016 10:37:00 AM
Updated By:	MXYAU
Own Op:	On-Site Operator
Sub Type:	05
Owner Name:	-
Owner Company:	West Levy, LLC
Owner Address:	2140 East 7th Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11223
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	03
Owner Name:	Not reported
Owner Company:	West Levy, LLC
Owner Address:	2140 East 7th Street
Owner Addr2:	Not reported

LUCKY CLEANERS (Continued) **1004565965**

Owner City,St,Zip: Brooklyn, NY 11223
Owner Country: United States of America
HW Code: 203083
Waste Type: xylene (mixed)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 203083
Waste Type: 1,2,4-trimethylbenzene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 203083
Waste Type: trichloroethene (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 203083
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: BETHEL CLEANERS
Facility address: 1120 WESTCHESTER AVE
BRONX, NY 10459
EPA ID: NY0000132795
Mailing address: WESTCHESTER AVE
BRONX, NY 10459
Contact: JAE KIM
Contact address: WESTCHESTER AVE
BRONX, NY 10459
Contact country: US
Contact telephone: 718-328-3405
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: JAE KIM
Owner/operator address: 144-20 38TH AVE
FLUSHING, NY 11354
Owner/operator country: US
Owner/operator telephone: 718-539-5285
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

LUCKY CLEANERS (Continued) **1004565965**

Owner/operator name: JAE KIM
Owner/operator address: 144-20 38TH AVE
FLUSHING, NY 11354
Owner/operator country: US
Owner/operator telephone: 718-539-5285
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: BETHEL CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/01/1994
Site name: BETHEL CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

Violation Status: No violations found

ICIS:
Enforcement Action ID: 02-1998-0379
FRS ID: 110001598959
Action Name: BETHEL CLEANERS
Facility Name: BETHEL CLEANERS
Facility Address: 1120 WESTCHESTER AVENUE
BRONX, NY 10459
Enforcement Action Type: CAA 113A Admin Compliance Order (Non-Penalty)
Facility County: BRONX
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 113A
Facility SIC Code: 7216

LUCKY CLEANERS (Continued) **1004565965**

Federal Facility ID: Not reported
Latitude in Decimal Degrees: 40.825407
Longitude in Decimal Degrees: -73.890466
Permit Type Desc: Not reported
Program System Acronym: 3125
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: LUCKY CLEANERS
Address: 1120 WESTCHESTER AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 7216

Facility Name: LUCKY CLEANERS
Address: 1120 WESTCHESTER AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 7216

Facility Name: LUCKY CLEANERS
Address: 1120 WESTCHESTER AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 7216

FINDS:

Registry ID: 110001598959

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also

LUCKY CLEANERS (Continued) **1004565965**

has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004565965
Registry ID:	110001598959
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001598959

NY MANIFEST:

Country:	USA
EPA ID:	NY0000132795
Facility Status:	Not reported
Location Address 1:	11-26 WESTCHESTER AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	BRONX
Location State:	NY
Location Zip:	10459
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	NY0000132795
Mailing Name:	BETHEL CLNRS
Mailing Contact:	JAE KIM
Mailing Address 1:	11-26 WESTCHESTER AVE
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10459
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	9183283465

NY MANIFEST:

Document ID:	NYC7082728
Manifest Status:	Not reported
seq:	01
Year:	2003
Trans1 State ID:	NYAT8011
Trans2 State ID:	NJ044
Generator Ship Date:	07/07/2003
Trans1 Recv Date:	07/07/2003
Trans2 Recv Date:	07/11/2003
TSD Site Recv Date:	07/14/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000132795
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	NJD071629976
TSDF ID 1:	OHD980587364

LUCKY CLEANERS (Continued) **1004565965**

TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access
36 additional NY_MANIFEST: record(s) in the EDR Site Report.

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BRONX	S110487611	CE - E. 173RD ST. - BRONX WORKS	WEST FARMS RD.& BRONX RIVER	10460	NY ENG CONTROLS, NY INST CONTROL, NY VCP
BRONX	S105684653	CE - ZEREGA AVE. STATION	ZEREGA AVE. BETWEEN BLACKROCK	10462	NY VCP

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/30/2017
Date Data Arrived at EDR: 06/08/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 99

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/30/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 98

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 05/30/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 98

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/06/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/11/2017
Date Data Arrived at EDR: 07/21/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 77

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/11/2017
Date Data Arrived at EDR: 07/28/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 70

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/22/2017
Date Data Arrived at EDR: 06/13/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 94

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/10/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 05/16/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 08/10/2017
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Annually

VAPOR REOPENED: Vapor Intrustion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 127

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/30/2017
Date Data Arrived at EDR: 07/06/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 78

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 05/16/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 83

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Varies

UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 09/21/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF: Major Oil Storage Facility Site Listing
These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 09/21/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 1
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 09/21/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 1
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 09/21/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 1
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30
Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30
Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/26/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

TANKS: Storage Tank Faciliy Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 09/21/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 06/27/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 1

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 09/19/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Varies

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/21/2014
Number of Days to Update: 21

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 09/22/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Varies

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 05/16/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 08/10/2017
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 05/16/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 08/10/2017
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements
New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 05/16/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 08/10/2017
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Semi-Annually

VCP NYC: Voluntary Cleanup Program Listing NYC
New York City voluntary cleanup program sites.

Date of Government Version: 12/19/2016
Date Data Arrived at EDR: 12/20/2016
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 143

Source: New York City Office of Environmental Protection
Telephone: 212-788-8841
Last EDR Contact: 09/18/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 05/16/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 08/10/2017
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Semi-Annually

ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 05/16/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 08/10/2017
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/19/2017
Date Data Arrived at EDR: 06/20/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/20/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 06/30/2017
Date Data Arrived at EDR: 07/06/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 78

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Semi-Annually

SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 06/14/2017
Date Data Arrived at EDR: 06/16/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 98

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 09/15/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 08/29/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/13/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 30
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: No Update Planned

DEL SHWS: Delisted Registry Sites
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 08/15/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 36
Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Annually

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/13/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 30
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 08/07/2017
Date Data Arrived at EDR: 08/08/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 45
Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/26/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 05/16/2017
Date Data Arrived at EDR: 05/18/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 83

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/25/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/10/2017
Date Data Arrived at EDR: 05/17/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 121

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/24/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/22/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/23/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/08/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/08/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 10/03/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/08/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/05/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/11/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/22/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/30/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 98

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/05/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/01/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/01/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/23/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 9

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 09/06/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/06/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/17/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 29
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

AIRS: Air Emissions Data
Point source emissions inventory data.

Date of Government Version: 11/09/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/04/2017
Number of Days to Update: 47
Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/10/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 31
Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Varies

DRYCLEANERS: Registered Drycleaners
A listing of all registered drycleaning facilities.

Date of Government Version: 10/27/2016
Date Data Arrived at EDR: 01/10/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 31
Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 09/08/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Varies

E DESIGNATION: E DESIGNATION SITE LISTING
The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 08/22/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 1
Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 09/18/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 40

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2015
Date Data Arrived at EDR: 12/29/2015
Date Made Active in Reports: 02/11/2016
Number of Days to Update: 44

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 09/08/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Varies

HSWDS: Hazardous Substance Waste Disposal Site Inventory
The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Annually

SPDES: State Pollutant Discharge Elimination System
New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 02/22/2017
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: No Update Planned

UIC: Underground Injection Control Wells
A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 12/08/2016
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 67
Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 09/08/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 06/26/2017
Date Data Arrived at EDR: 08/18/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 35
Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 07/31/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 06/26/2017
Date Data Arrived at EDR: 08/18/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 35
Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 07/31/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35
Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 07/31/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

Registered Tank Database in Nassau County
A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35

Source: Nassau County Department of Health
Telephone: 516-227-9691
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 02/15/2017
Number of Days to Update: 35

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 07/31/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 08/31/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 08/31/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13
Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 09/08/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13
Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 09/08/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 07/03/2017
Date Data Arrived at EDR: 08/15/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 38
Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/31/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 07/03/2017
Date Data Arrived at EDR: 08/15/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 38
Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/31/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 107

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/21/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 05/12/2017
Date Data Arrived at EDR: 05/23/2017
Date Made Active in Reports: 08/16/2017
Number of Days to Update: 85

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 92

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/11/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

1460 SHERIDAN EXPRESSWAY
1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459

TARGET PROPERTY COORDINATES

Latitude (North):	40.831628 - 40° 49' 53.86''
Longitude (West):	73.884168 - 73° 53' 3.00''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	594085.0
UTM Y (Meters):	4520454.0
Elevation:	8 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5940599 CENTRAL PARK, NY
Version Date:	2013
East Map:	5940605 FLUSHING, NY
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

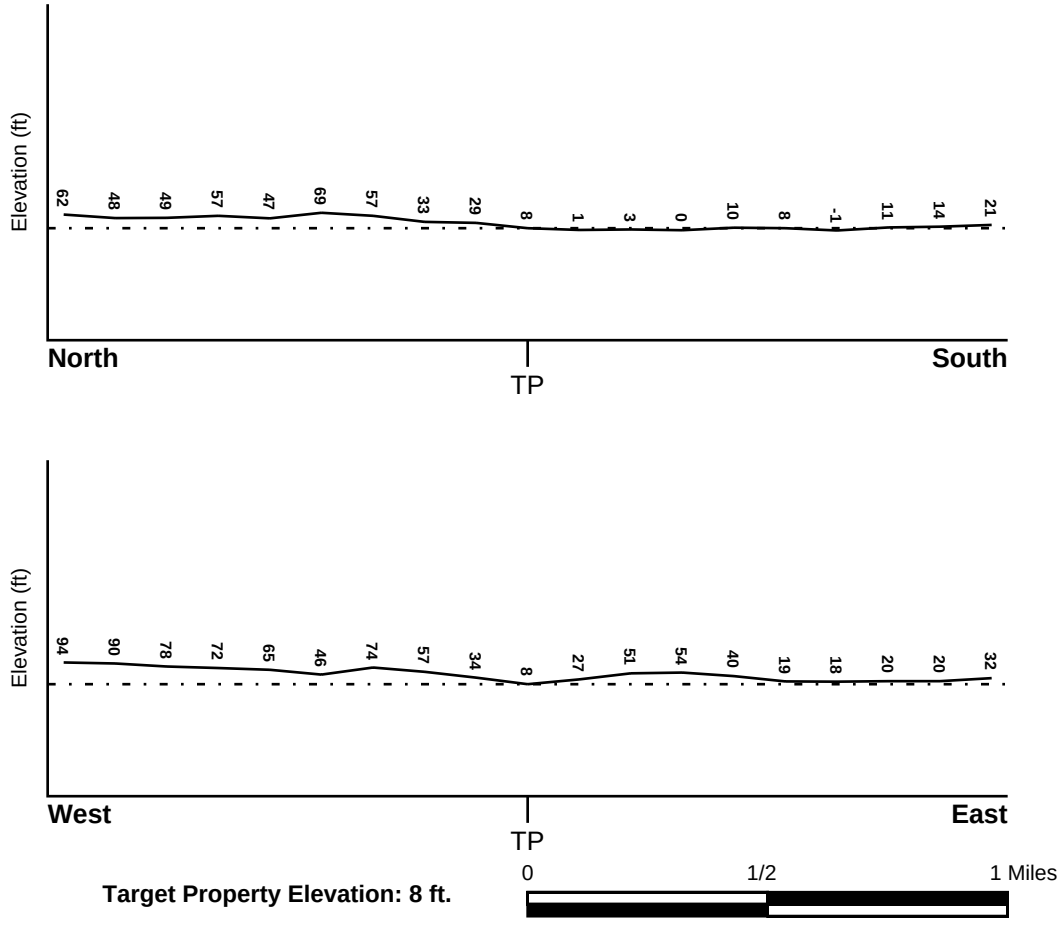
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 8 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
3604970084F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
3604970082F	FEMA FIRM Flood data
3604970101F	FEMA FIRM Flood data
3604970103F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CENTRAL PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Ordovician
Series:	Middle Ordovician (Mohawkian)
Code:	O2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
loamy sand
sandy loam
fine sandy loam

Surficial Soil Types: silt loam
loamy sand
sandy loam
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock
very gravelly - loamy sand
stratified
sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000833952	1/4 - 1/2 Mile SSE
2	USGS40000834130	1/4 - 1/2 Mile ENE
3	USGS40000833763	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

No Wells Found

PHYSICAL SETTING SOURCE MAP - 5071514.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	1460 Sheridan Expressway	CLIENT:	LCS, Inc
ADDRESS:	1460 Sheridan Expressway Bronx NY 10459	CONTACT:	Ashley Stegmaier
LAT/LONG:	40.831628 / 73.884168	INQUIRY #:	5071514.2s
		DATE:	October 09, 2017 10:53 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE **FED USGS** **USGS40000833952**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404941073525801		
Monloc name:	B 51		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.8281561
Longitude:	-73.882358	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	350
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

2
ENE **FED USGS** **USGS40000834130**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-405002073523201		
Monloc name:	B 76. 1		
Monloc type:	Well		
Monloc desc:	West s/o Morrison Ave., 50 ft s/o E. 174th St.		
Huc code:	02030102	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.8338667
Longitude:	-73.8756972	Sourcemap scale:	24000
Horiz Acc measure:	.01	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from Digital Map		
Horiz coord refsys:	NAD83	Vert measure val:	22
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Reported		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	New England crystalline-rock aquifers		
Formation type:	Bedrock		

Aquifer type:	Unconfined single aquifer		
Construction date:	20090727	Welldepth:	20
Welldepth units:	ft	Wellholedepth:	20
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

3
South **FED USGS** **USGS40000833763**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404917073530801		
Monloc name:	B 55		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.8214896
Longitude:	-73.8851359	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	210
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for BRONX County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for BRONX COUNTY, NY

Number of sites tested: 31

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	96%	4%	0%
Basement	1.110 pCi/L	42%	58%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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10.7 MUNICIPAL INFORMATION

LCS, INC.
MUNICIPAL INFORMATION

PROJECT#: 17N7498.39

SITE ADDRESS (identify all potential addresses): 1460 Sheridan Expressway, Bronx, NY 10459

FILL OUT THIS FORM ONLY IF YOU VISITED A MUNICIPAL (local, county, state) OFFICE. [If you did not visit an office, the source (web address) of all municipal information should be clearly identified on printouts included in paperwork.]

MUNICIPALITY Visited (identify Village/Town/City): www.oasisnyc.net

Office: Assessment Date: 10-5-17 ***obtain copy of tax map**

SBL #/Tax Parcel #: 3017, 74

Owner: West Farm Realty, LLC

Past owner(s): Unknown

Acres: 41,149 SF Building sq ft. 14,000 SF Year Built 1965

Utilities: gas, electric, municipal water & sewer

Additional info.: One 1-story commercial building

DOB Website

Office: Building/Code Enforcement Department Date: 10-5-17

*Review permits, complaints, violations, records of historic heating systems, etc.

See attached sheets

Office: Muni FOIAs Sent Date: 10-5-17

*Information obtained:

See attached sheets

Revised 9/2017

Property Report by PropertyShark.com

Property Report for:

1460 Sheridan Expwy St, Bronx, NY 10459

B. Overview

B1. Overview

Address

Primary address	1460 Sheridan Expwy St
Alternate address(es)	1460 Sheridan Expy
Zip code	10459
Borough	Bronx
Block & lot	03017-0074
Sanborn map	216 013
Tax map	21106

Owner

Name	West Farms Realty LLC
Address	1250 Waters Pl Ph 1 Bronx, NY 10461
Purchase date	01/03/2000
Purchase price	$0

Property T axes

Tax class	4
Tax assessor's market value	$1,296,000
Current tax bill	$55,193

Neighborhood

Neighborhood	Fairmont - Claremont V illage
Community district	9
Closest Police station	0.91 Miles
Closest Fire station	0.60 Miles
School district number	12
Census tract	157

Hazards & Environment

Toxic site on this property	1
Neighboring toxic sites	1

Building

Building class	Factory - Heavy Manufacturing (Fireproof) (F1) i
Building sqft	14,000
Building dimensions	102.58 ft x 127.83 ft
Roof height	25 ft
Ground elevation	14 ft
Year built	1965
Stories	1
Certificate of Occupancy	Click here i

Use

Commercial units	1
Office sqft	1,000
Factory sqft	13,000

Lot

Lot sqft	41,149 i
Lot dimensions	265.11 ft x 134.88 ft
Corner lot	SE
Buildings on lot	1

Zoning

Zoning districts	M1-1 i
Zoning map	3d

Floor Area Ratio (F AR)

Commercial FAR	1
Facility FAR	2.4
FAR as built	0.34 i
Allowed usable floor area	41,149
Usable floor area as built	13,991

B6. Sale & Property History

C. Ownership

C1. Registered Owner

West Farms Realty LLC
1250 Waters Pl Ph 1
Bronx, NY 10461
Source: Assessment Roll
Last recorded: 04/25/2017

Phone Lookup

Add to Address Book

H. Development & Use

H5. Permits

Pre filing date	Job type	Initial cost	Job status	Work type	Link to job
05/04/2015	Sign	$792	Plan exam - approved	Sign	
Non illuminated non advertising accessory sign-inside property line- no change of use, egress, or occupancy.					
05/04/2015	Sign	$1,144	Plan exam - approved	Sign	
Non illuminated non advertising accessory sign - no change of use, egress, or occupancy.					
12/30/2014	Alteration type 2	$30,000	Application processed - completed	Plumbing, mechanical	
Mechanical and plumbing work associated with renovation of existing auto repair shop.					
12/30/2014	Alteration type 2	$75,000	Application processed - completed	Structural	
Structural work associated with the renovation of existing auto repair shop.					
12/30/2014	Alteration type 2	$125,000	Application processed - completed	Gen. constr.	
Renovation of existing auto-repair shop.					

Disclaimer

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All data comes from government sources. No attempt has been made to validate it. No attempt has been made to validate the accuracy of the programming of this web site. Do not rely on this report to support investment decisions. The only authoritative source for the information in this report is the government agencies from which the data was acquired.

Location Report

Property Information (1)

1460 SHERIDAN EXPWY SR, BRONX 10459

Industrial / Manufacturing

Owner: WEST FARMS REALTY LLC
Block: 3017 Lot: 74
Property Characteristics:
Lot Area: 41,149 sq ft (265.11' x 134.88')
of Buildings: 1 Year built: 1965
Building frontage: 102.58' (Building frontage along the street measured in feet.)
of floors: 1 Building Area: 14,000 sq ft
Total Units: 1 Residential Units: 0
Primary zoning: M1-1 Commercial Overlay: None
Floor Area Ratio: 0.34
Max. Allowable Residential FAR: 0
Max. Allowable Commercial FAR: 1
Max. Allowable Facility FAR: 2.4
The Maximum Allowable Floor Area Ratios are exclusive of bonuses for plazas, plaza-connected open areas, arcades or other amenities.
FAR may depend on street widths or other characteristics. Contact City Planning Dept. for latest information.
MORE INFO:

- Zoning Map#: 3d (how to read NYC zoning maps)
- Historical Zoning Maps: 3d
- NYC Dept. of Buildings
- Property transaction records (NB: buildings w/condos may not show transaction results)
- NYC Dept. of Finance Assessment Roll
- NYC HPD data
- NYC Planning's ZoLa application
- NYC Digital Tax Map
- NYC zoning guide
- NYC Watershed Resources

OASIS shortcut to this property:
http://www.oasisnyc.net/printmap.aspx?zoomto=lot:2030170074
Source: MapPLUTO Tax Block & Tax Lot files from the New York City Department of City Planning, 2016 (ver. 16v1).

Stewards (3)

Updated stewardship data coming soon (as of 2017).
NB: Stewards are civic groups that help take care of New York, not necessarily property owners.

Bronx Land Trust
Feedback? Email Us.
Updated stewardship data coming soon (as of 2017).
NB: Stewards are civic groups that help take care of New York, not necessarily property owners.

Green Worker Cooperatives
Feedback? Email Us.
Updated stewardship data coming soon (as of 2017).
NB: Stewards are civic groups that help take care of New York, not necessarily property owners.

St. Ann Church
Feedback? Email Us.

Stewards with large turfs (not mapped)

Community District (1)

Bronx 9 Community District Information
Chairperson: William Rivera
District Manager: Rogier F. Vlissengen
Address: 1967 Turnbull Avenue, Rm. 7, Bronx, NY, 10473
Phone: 718-823-3034 Email: bx09@cb.nyc.gov
Website: http://www.nyc.gov/html/bxcb9/html/contact/contact.shtml
Meeting Information: District Office
Go to District Profile by NYC Dept. of City Planning

Political Districts (5)

NYC Council: District 17
NYS Assembly: District 085
NYS Senate: District 32
US House of Representatives: District 15
US Senate: New York

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Property Profile Overview

1460 SHERIDAN EXPRESSWAY BRONX 10459 BIN# 2010977

SHERIDAN EXPRESSWAY	1460 - 1460	Health Area	: 2120	Tax Block	: 3017
EAST 172 STREET	NO NUMBER	Census Tract	: 157	Tax Lot	: 74
		Community Board	: 209	Condo	: NO
		Buildings on Lot	: 1	Vacant	: NO

View DCP Addresses... Browse Block

View Zoning Documents | View Challenge Results | Pre - BIS PA | View Certificates of Occupancy

Cross Street(s):	WESTCHESTER AVENUE		
DOB Special Place Name:			
DOB Building Remarks:			
Landmark Status:		Special Status:	N/A
Local Law:	NO	Loft Law:	NO
SRO Restricted:	NO	TA Restricted:	NO
UB Restricted:	NO		
Environmental Restrictions:	N/A	Grandfathered Sign:	NO
Legal Adult Use:	NO	City Owned:	NO
Additional BINs for Building:	NONE		

Special District: UNKNOWN

This property is located in an area that may be affected by the following:

Tidal Wetlands Map Check:	Yes
Freshwater Wetlands Map Check:	No
Coastal Erosion Hazard Area Map Check:	No
Special Flood Hazard Area Check:	Yes

Click here for more information

Department of Finance Building Classification: F1-FACTORY/INDSTRIAL

Please Note: The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	Total	Open
Complaints	1	1
Violations-DOB	5	2
Violations-ECB (DOB)	0	0
Jobs/Filings	6	
ARA / LAA Jobs	0	
Total Jobs	6	
Actions	21	

OR Enter Action Type:

OR Select from List: Select...

AND Show Actions

Elevator Records
Electrical Applications
Permits In-Process / Issued
Illuminated Signs Annual Permits
Plumbing Inspections
Open Plumbing Jobs / Work Types
Facades
Marquee Annual Permits
Boiler Records
DEP Boiler Information
Crane Information
After Hours Variance Permits

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Boiler Details

Premises: 1460 SHERIDAN EXPRESSW AY BRONX BIN: 2010977 Block: 3017 Lot: 74

DOB NOW: Inspections

Boiler-No: 822639 Serial-No: 01 Type: COMMERCIAL LOW PRESSURE
Boiler Status: ACTIVE Review Required:

Filed At: 1460 SHERIDAN EXPRESSW AY BIN: 2010977 BBL: 2-03017-00074

Located in: BASEMENT
Make of Boiler: SLANT FIN Year:
Over6: No No-of-Boilers: 01
Fee: Yes School: No

The below information does not include 2017 Boiler Inspection Cycle compliance filings submitted after August 14, 2017; use the DOB NOW Public Portal to access DOB NOW records.

INSP-DATE	REC-DATE	ENTRY DATE	NAME	Int/Ext	RESULTS	NYS CERTIFICATE
10/08/2013	10/10/2013	08/05/2014	PICCININNI JACK		NO DEFECTS	O 5157
07/20/2012	08/27/2012	04/14/2014	LATORA VINCENT		NO DEFECTS	O 004242
12/28/2012	02/14/2013	02/15/2013	PICCININNI JACK		NO DEFECTS - LATE FILING	5157
10/13/2010	11/04/2010	02/25/2011	AUSPERGER WILLIAM		NO DEFECTS	P 1720
10/20/2008	12/24/2008	12/30/2008	TRAVELERS INSURANCE CO		DEFECTS EXIST	1509
10/16/2006	12/29/2006	01/09/2007	TRAVELERS INSURANCE CO		NO DEFECTS	2781
11/01/2005	12/29/2005	01/18/2006	TRAVELERS INSURANCE CO		NO DEFECTS	5066
07/07/2004	09/01/2004	09/30/2004	TRAVELERS INSURANCE CO		NO DEFECTS	5066
06/10/2003	08/20/2003	08/26/2003	TRAVELERS INSURANCE CO		NO DEFECTS	5066

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

Form 55-2M-12-41 114

DEPARTMENT OF HOUSING AND BUILDINGS

BOROUGH OF THE BRONX , CITY OF NEW YORK PG

No

Date MAY 9 - 1947

CERTIFICATE OF OCCUPANCY

(Standard form adopted by the Board of Standards and Appeals and issued pursuant to Section 646 of the New York Charter, and Sections C.26-181.0 to C26-187.0 inclusive Administrative Code 2.1.3.1. to 2.1.3.7. Building Code.)

This certificate supersedes C. O. No.

To the owner or owners of the building or premises:

THIS CERTIFIES that the ~~new~~—altered—existing ~~XXXXX~~—premises located at

1476 Edgewater Road, E/S 200' North of Westchester Avenue Block 3017 Lot 28

, conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

~~XXXXX~~ N.B. or Alt. No.— 971/46 Construction classification— Non-fireproof

Occupancy classification— Commercial & Garage Height 1 stories, 15 feet.

Date of completion— March 6,1947 . Located in Unrestricted Use District.

A Area Class 1½ . Height Zone at time of issuance of permit

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals: (Calendar numbers to be inserted here)

PERMISSIBLE USE AND OCCUPANCY

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED MALE	FEMALE	TOTAL	USE
First	120 On earth	2		2	Motor vehicle repair shop and 4 car non-storage garage

NOTE: Fire Department approval of Fire Extinguishing Equipment received March 26,1947.

Borough Superintendent.

NO CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE SHALL BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT

Unless an approval for the same has been obtained from the Borough Superintendent, no change or rearrangement in the structural parts of the building, or affecting the light and ventilation of any part thereof, or in the exit facilities, shall be made; no enlargement, whether by extending on any side or by increasing in height shall be made; nor shall the building be moved from one location or position to another; nor shall there by any reduction or diminution of the area of the lot or plot on which the building is located.

The building or any part thereof shall not be used for any purpose other than that for which it is certified.

The superimposed, uniformly distributed loads, or concentrated loads producing the same stresses in the construction in any story shall not exceed the live loads specified on reverse side; the number of persons of either sex in any story shall not exceed that specified when sex is indicated, nor shall the aggregate number of persons in any story exceed the specified total; and the use to which any story may be put shall be restricted to that stated by this certificate except as specifically stated.

This certificate does not in any way relieve the owner or owners of any other person or persons in possession or control of the building, or any part thereof from obtaining such other permits, licenses or approvals as may be prescribed by law for the uses or purposes for which the building is designed or intended, nor from obtaining the special certificates required for the use and operation of elevators; nor from the installation of fire alarm systems where required by law; nor from complying with any lawful order for additional fire extinguishing appliances under the discretionary powers of the fire commissioner; nor from complying with any lawful order issued with the object of maintaining the building in a safe or lawful condition; nor from complying with any authorized direction to remove encroachments into a public highway or other public place, whether attached to or part of the building or not.

If this certificate is marked "Temporary", it is applicable only to those parts of the building indicated on its face, and certifies to the legal use and occupancy of only such parts of the building; it is subject to all the provisions and conditions applying to a final or permanent certificate; it is not applicable to any building under the jurisdiction of the Housing Division unless it is also approved and endorsed by them, and it must be replaced by a full certificate at the date of expiration.

If this certificate is for an existing building, erected prior to March 14, 1916, it has been duly inspected and it has been found to have been occupied or arranged to be occupied prior to March 14, 1916, as noted on the reverse side, and that on information and belief, since that date there has been no alteration or conversion to a use that changed its classification as defined in the Building Code, or that would necessitate compliance with some special requirement or with the State Labor Law or any other law or ordinance; that there are no notices of violations or orders pending in the Department of Housing and Buildings at this time; that Section 646F of the New York City Charter has been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent, and that, so long as the building is not altered, except by permission of the Borough Superintendent, the existing use and occupancy may be continued.

"§ 646 F. No certificate of occupancy shall be issued for any building, structure, enclosure, place or premises wherein containers for combustibles, chemicals, explosives, inflammables and other dangerous substances, articles, compounds or mixtures are stored, or wherein automatic or other fire alarm systems or fire extinguishing equipment are required by law to be or are installed, until the fire commissioner has tested and inspected and has certified his approval in writing of the installation of such containers, systems or equipment to the Borough Superintendent of the borough in which the installation has been made. Such approval shall be recorded on the certificate of occupancy."

Additional copies of this certificate will be furnished to persons having an interest in the building or premises, upon payment of a fee of fifty cents per copy

Form 55-2M-12-41 114

DEPARTMENT OF HOUSING AND BUILDINGS

BOROUGH OF THE BRONX , CITY OF NEW YORK PG

No

Date MAY 9 - 1947

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, conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

~~XXXXX~~ N.B. or Alt. No.— 971/46 Construction classification— Non-fireproof

Occupancy classification— Commercial & Garage Height 1 stories, 15 feet.

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The building or any part thereof shall not be used for any purpose other than that for which it is certified.

The superimposed, uniformly distributed loads, or concentrated loads producing the same stresses in the construction in any story shall not exceed the live loads specified on reverse side; the number of persons of either sex in any story shall not exceed that specified when sex is indicated, nor shall the aggregate number of persons in any story exceed the specified total; and the use to which any story may be put shall be restricted to that stated by this certificate except as specifically stated.

This certificate does not in any way relieve the owner or owners of any other person or persons in possession or control of the building, or any part thereof from obtaining such other permits, licenses or approvals as may be prescribed by law for the uses or purposes for which the building is designed or intended, nor from obtaining the special certificates required for the use and operation of elevators; nor from the installation of fire alarm systems where required by law; nor from complying with any lawful order for additional fire extinguishing appliances under the discretionary powers of the fire commissioner; nor from complying with any lawful order issued with the object of maintaining the building in a safe or lawful condition; nor from complying with any authorized direction to remove encroachments into a public highway or other public place, whether attached to or part of the building or not.

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If this certificate is for an existing building, erected prior to March 14, 1916, it has been duly inspected and it has been found to have been occupied or arranged to be occupied prior to March 14, 1916, as noted on the reverse side, and that on information and belief, since that date there has been no alteration or conversion to a use that changed its classification as defined in the Building Code, or that would necessitate compliance with some special requirement or with the State Labor Law or any other law or ordinance; that there are no notices of violations or orders pending in the Department of Housing and Buildings at this time; that Section 646F of the New York City Charter has been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent, and that, so long as the building is not altered, except by permission of the Borough Superintendent, the existing use and occupancy may be continued.

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LCS INC.
Environmental and Real Estate Consultants

Corporate Offices
Waterfront Village
40 La Riviere Drive, Suite 120
Buffalo, New York 14202

Tel: 800.474.6802
716.845.6145
Fax: 716.845.6164
www.lenderconsulting.com

October 5, 2017

NYS Department of Environmental Conservation
Hunters Point Plaza
47-40 21st Street
Long Island City, New York 11101-5407
r2foil.foil@ dec.ny.gov

RE: Records Review Request For File No. 17N7498.39
PLEASE REFERENCE THIS # WHEN RESPONDING

Dear Sir/Madam:

Our firm is performing an Environmental Assessment of a real property located within the jurisdiction of NYSDEC Region 2. Under the Freedom of Information Law (FOIL), I am writing to request that a review be made of NYSDEC Region 2 department records, which are relevant to the purpose of this Phase I Assessment. Please forward this FOIL request to the following NYSDEC departments for review of department records, if available with regards to the subject site or facility(s) (referenced below).

1) Regulatory Services - permits and registrations (active and inactive).
2) Law Enforcement/Legal Affairs/Env. Enforcement - complaint/notice of violation files, legal proceedings.
3) Solid and Hazardous Waste - site files for active and inactive sites associated with the subject address.
4) Petroleum Bulk Storage - tank closure reports, registered facilities.
5) Air/Water Division - air and water quality issues/violations and contaminated public wells.
6) NYSDEC Site Inspection Reports associated with the subject address.
7) Spills Division - record of petroleum/chemical releases.

STREET ADDRESS: **1460 Sheridan Expressway**
MUNICIPALITY: **New York (Bronx)**
CURRENT OWNER(S): **West Farms Realty, LLC**
BLOCK, LOT(s) #: **3017, 74**

Please forward all written responses or documents to LCS, Inc., in attention of Stephanie LaPlaca, at the address above. If you have any questions regarding this request for information or to contact an individual from LCS to come in and review the file, please contact Manny Nazario at (646) 425-4854 or mnazario@lenderconsulting.com. The information that you provide is greatly appreciated.

Sincerely,



Manny Nazario
Environmental Analyst
LCS, Inc.

NEW YORK CITY ENVIRONMENTAL PROTECTION

FOIL Request Form

Please complete the form below and send it either by mail to: Records Access Officer at NYCDEP, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373; or email: FOIL2@dep.nyc.gov.

If responsive records are located, you will be informed of any required advanced payment for reproduction at a cost of $.25 per page, or actual cost, made payable by check or money order to the NYC DEP.

1. Check one: Under Article 6 of the New York State Public Officers Law ("FOIL"), I hereby apply to:
   ☐ Inspect copies; or ☒ Receive copies of the following records.

2. Specify/Describe the records you are requesting in detail. Include any relevant location, address, permit #, complaint #, court index #, incident date, etc. If applicable, please submit separate requests for multiple locations, account #'s or incidents. **Attach additional sheets as needed.**

PART I. APPLICATION - Check Bureau(s) known or believed to have the record(s):

- ☐ Executive
- ☐ General Counsel
- ☐ Agency Chief Contracting Office
- ☐ Bureau of Customer Services (Water Bills)
- ☑ Bureau of Environmental Compliance
  - ☑ Asbestos
  - ☑ Hazardous Materials
  - ☑ Air & Noise
- ☐ Environmental Control Board
- ☑ Bureau of Environmental Engineering
- ☐ Office of Environmental Planning and Assessment
- ☑ Bureau of Wastewater Treatment
  - ☐ Sewer discharge violations
- ☐ Bureau of Water and Sewer Operations
  - ☑ Water Records
  - ☐ Sewer Records
- ☑ Bureau of Water Supply
  - ☐ Water Quality
- ☐ DEP Police
- ☐ _____
- ☐ _____

3. Location: (If possible, list full street address, including borough)

1460 Sheridan Expressway, Bronx, NY 10459

4. Time frame/Date of Records: _____

5. Requestor's Name: Manny Nazario Email: MNAZARIO@LenderConsulting.com
   Entity/Firm: LCS, Inc. Phone: 646-425-4854
   Address: 40 La Riviere Dr, Buffalo, NY 14202
   Signature _____ Date: 10-5-17

Please be advised that your request is important to us and will be processed as expeditiously as possible. A denial, in whole or in part, may be appealed within 30 days of the determination by writing to the NYC DEP FOIL Appeals Officer, at 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373

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Fax: 716.845.6164
www.lenderconsulting.com

October 5, 2017

Secretary of the Health Department
New York City Department of Health
125 Worth Street
Room 604A, Box 31
New York, New York 10013

RE: Records Review Request For File No. 17N7498.39
PLEASE REFERENCE THIS # WHEN RESPONDING

To Whom It May Concern:

Our firm is performing a Phase I Environmental Audit of a real property located within New York City. I am writing to request that a review be made of New York City Department of Health records, which are relevant to the purpose of this Phase I Audit. Please review the following records which pertain to the below referenced site.

1) NY State Registry of Inactive Hazardous Waste Sites for New York County.
2) Complaint files.
3) Underground storage tank database for subject property area.
4) Unpermitted spills and discharges.
5) Site inspection records and septic system inspection reports.
6) Tank closure reports

STREET ADDRESS: **1460 Sheridan Expressway**
MUNICIPALITY: **New York (Bronx)**
CURRENT OWNER(S): **West Farms Realty, LLC**
BLOCK, LOT(s) #: **3017, 74**

Please forward all written responses or documents to LCS, Inc., in attention of Stephanie LaPlaca, at the address above. If you have any questions regarding this request for information or to contact an individual from LCS to come in and review the file, please contact Manny Nazario at mnazario@lenderconsulting.com. The information that you provide is greatly appreciated.

Sincerely,

Manny Nazario
Environmental Analyst
LCS, Inc.

10.8 AERIAL PHOTOGRAPHS

Due to the metropolitan area in that the subject property is located within and the sufficient historical data collected from additional sources, aerial photographs were not reviewed for the subject property.

10.9 HISTORICAL INFORMATION

1460 Sheridan Expressway

1460 Sheridan Expressway

Bronx, NY 10459

Inquiry Number: 5071514.3

October 09, 2017

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/09/17

Site Name:

1460 Sheridan Expressway
1460 Sheridan Expressway
Bronx, NY 10459
EDR Inquiry # 5071514.3

Client Name:

LCS, Inc
40 La Riviere Dr Ste 100
Buffalo, NY 14202
Contact: Ashley Stegmaier

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by LCS, Inc were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # CB8B-4061-9E94

PO # 17N7498

Project 17N7498

Maps Provided:

2007	1996	1985	1950
2006	1995	1983	1928
2005	1994	1981	1919
2004	1993	1980	1915
2003	1992	1979	1908
2002	1991	1978	1903
2001	1989	1977	1901
1998	1986	1969	1896

Sanborn® Library search results

Certification #: CB8B-4061-9E94

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

LCS, Inc (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

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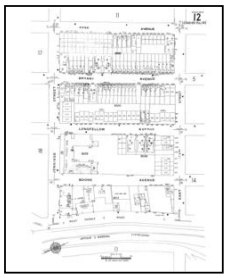
Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

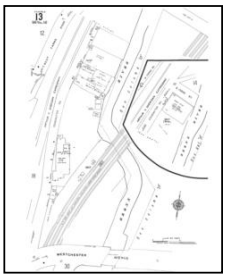
EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

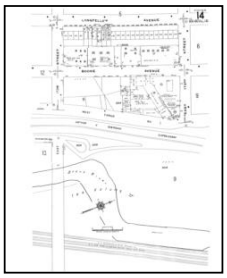
Sanborn Sheet Key

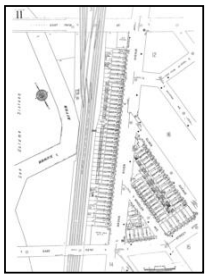
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets


Volume 16, Sheet 12
2007

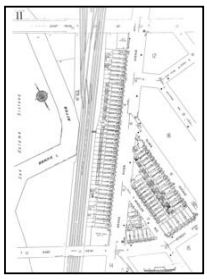

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2007


Volume 16, Sheet 14
2007

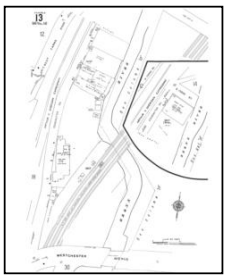

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2007

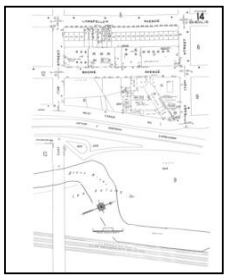

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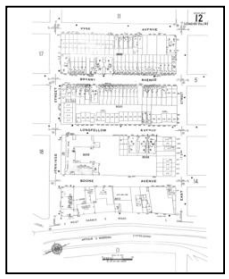
2006 Source Sheets


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2006

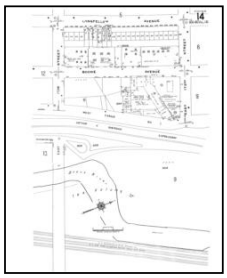

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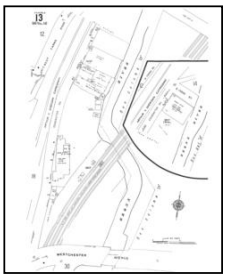

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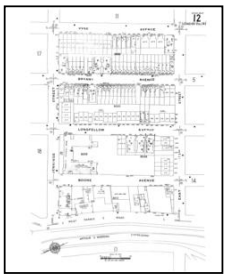

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2006

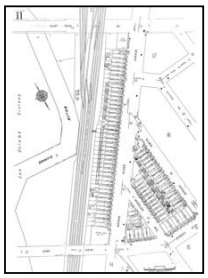

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2006

2005 Source Sheets


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2005

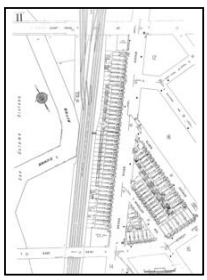

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2005


Volume 16, Sheet 12
2005

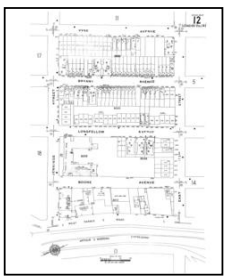

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2005

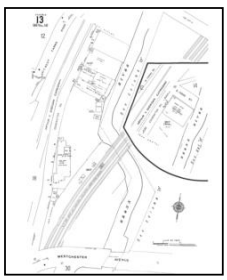

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2005

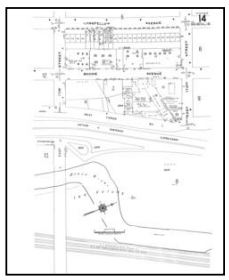
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2004


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2004


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2004

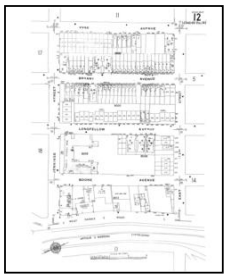

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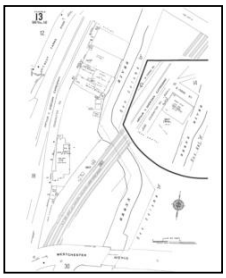

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2004

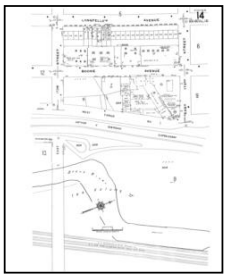
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

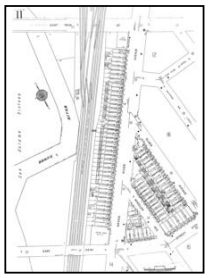
2003 Source Sheets


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2003


Volume 16, Sheet 13
2003

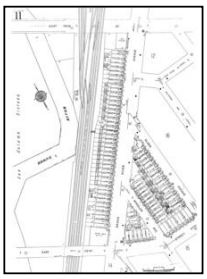

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2003

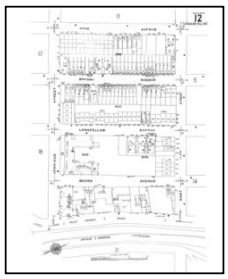

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2003

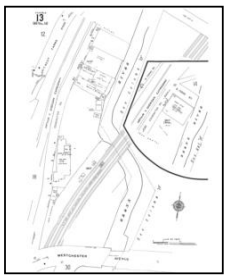

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2003

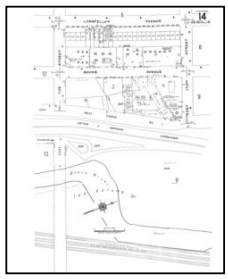
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2002

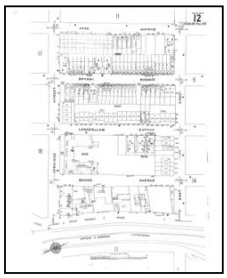

Volume 17, Sheet 11
2002

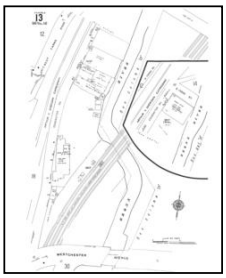

Volume 16, Sheet 12
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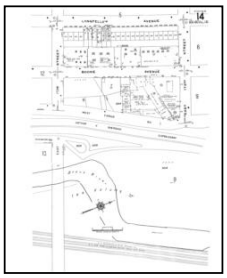

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2002

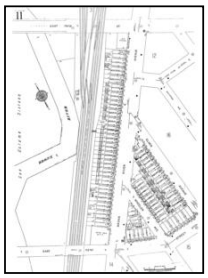

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2002

2001 Source Sheets


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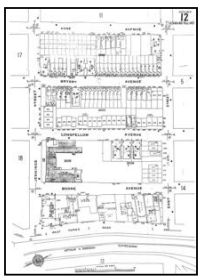

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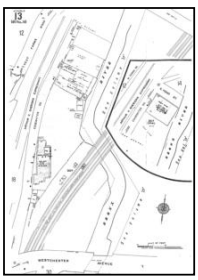

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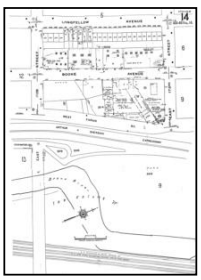

Volume 17, Sheet 11
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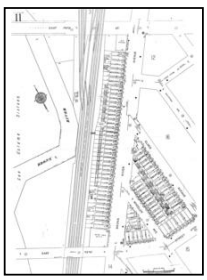

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2001

1998 Source Sheets


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1998


Volume 16, Sheet 13
1998


Volume 16, Sheet 14
1998

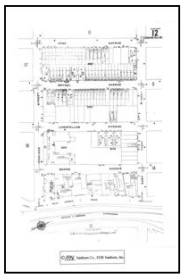

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1998


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1998

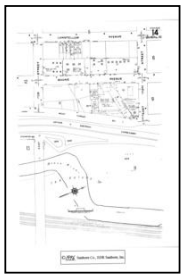
Sanborn Sheet Key

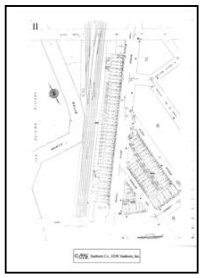
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1996 Source Sheets


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1996


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1996

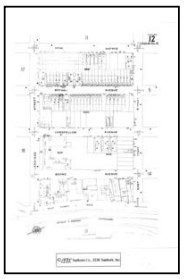

Volume 16, Sheet 14
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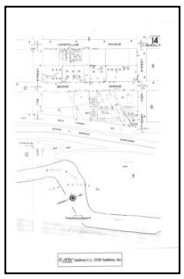

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1996


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1996

1995 Source Sheets

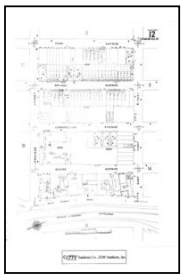

Volume 17, Sheet 14
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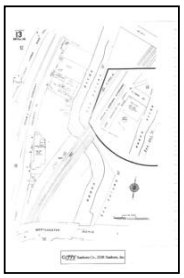

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Volume 16, Sheet 14
1995


Volume 16, Sheet 13
1995

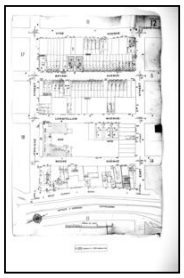
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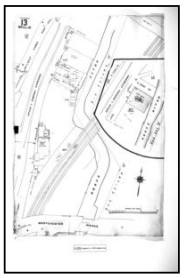

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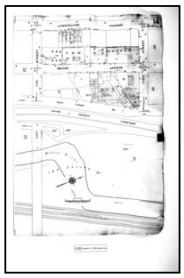

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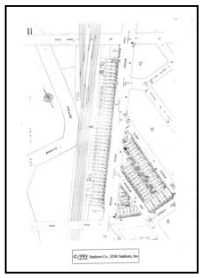

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1994

1993 Source Sheets


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1993


Volume 16, Sheet 13
1993


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1993

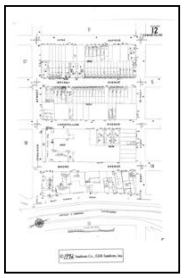

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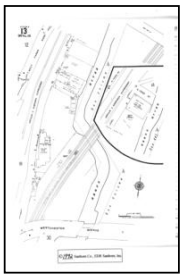

Volume 17, Sheet 14
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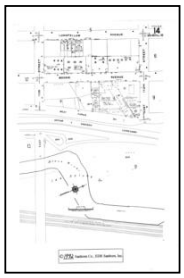
Sanborn Sheet Key

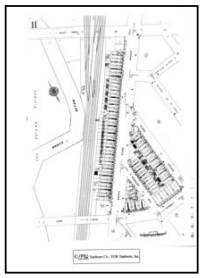
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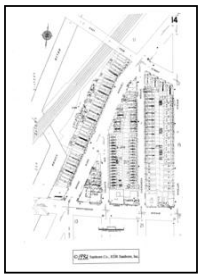
1992 Source Sheets


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1992

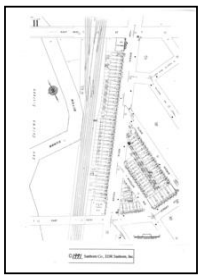

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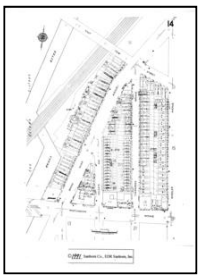

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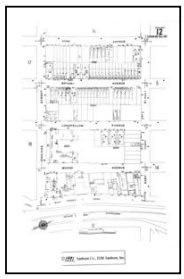

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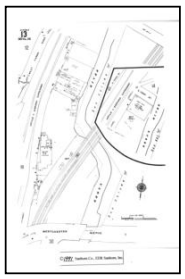

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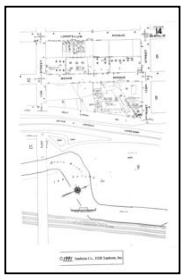
1991 Source Sheets


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1991

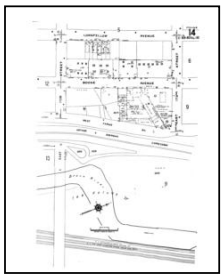

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1991

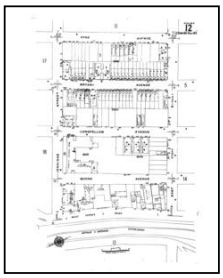

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1991

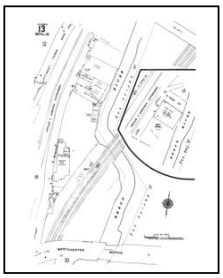

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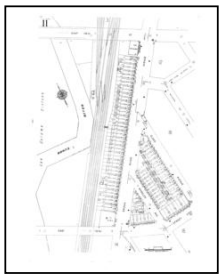

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1991

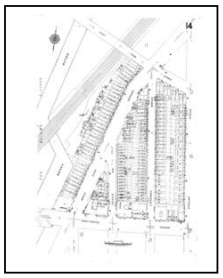
1989 Source Sheets


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1989


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1989


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1989

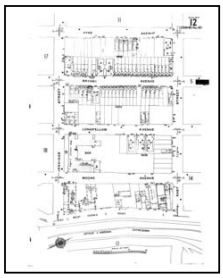

Volume 17, Sheet 11
1989

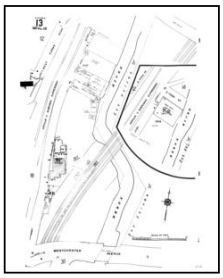

Volume 17, Sheet 14
1989

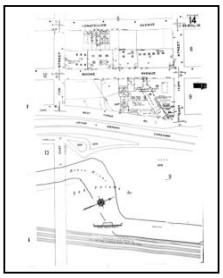
Sanborn Sheet Key

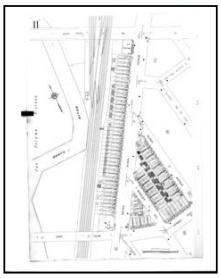
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1986 Source Sheets


Volume 16, Sheet 12
1986

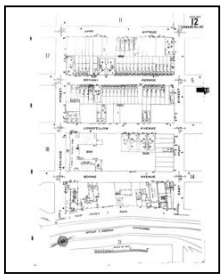

Volume 16, Sheet 13
1986

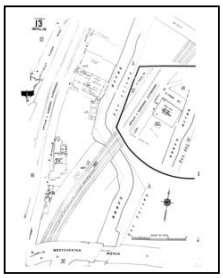

Volume 16, Sheet 14
1986

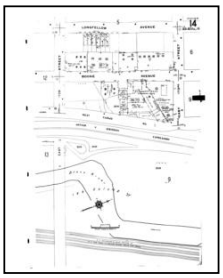

Volume 17, Sheet 11
1986


Volume 17, Sheet 14
1986

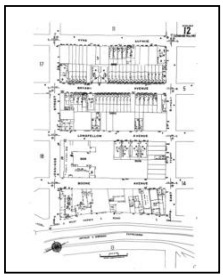
1985 Source Sheets

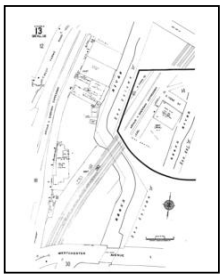

Volume 16, Sheet 12
1985

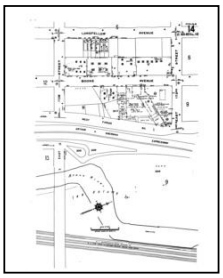

Volume 16, Sheet 13
1985

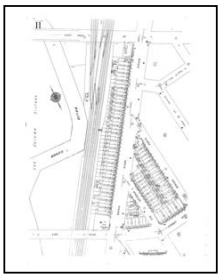

Volume 16, Sheet 14
1985

1983 Source Sheets


Volume 16, Sheet 12
1983


Volume 16, Sheet 13
1983

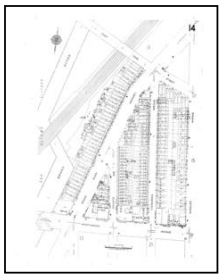

Volume 16, Sheet 14
1983


Volume 17, Sheet 11
1983

Sanborn Sheet Key

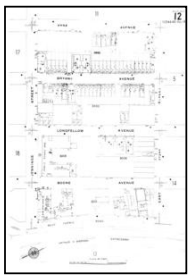
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1983 Source Sheets



Volume 17, Sheet 14
1983

1981 Source Sheets



Volume 16, Sheet 12
1981



Volume 16, Sheet 13
1981



Volume 16, Sheet 14
1981

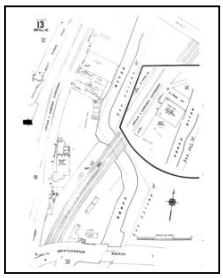


Volume 17, Sheet 11
1981

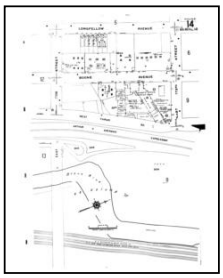


Volume 17, Sheet 14
1981

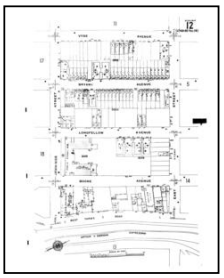
1980 Source Sheets



Volume 16, Sheet 13
1980

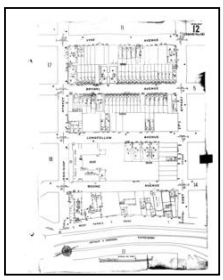


Volume 16, Sheet 14
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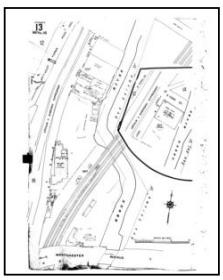


Volume 16, Sheet 12
1980

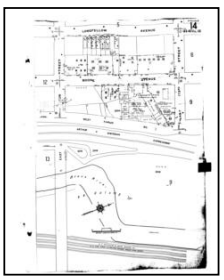
1979 Source Sheets



Volume 16, Sheet 12
1979



Volume 16, Sheet 13
1979

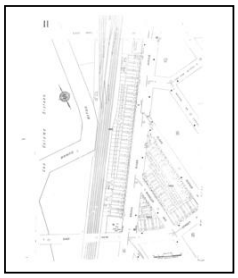


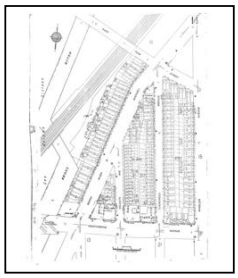
Volume 16, Sheet 14
1979

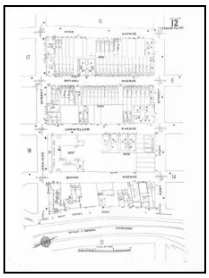
Sanborn Sheet Key

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1978 Source Sheets


Volume 17, Sheet 11
1978

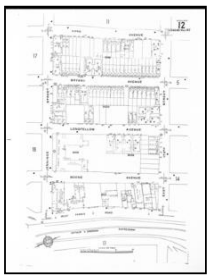

Volume 17, Sheet 14
1978

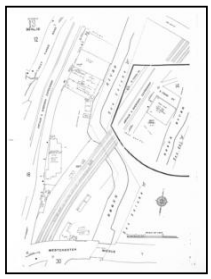

Volume 16, Sheet 12
1978

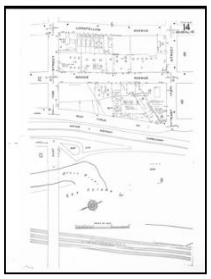

Volume 16, Sheet 13
1978

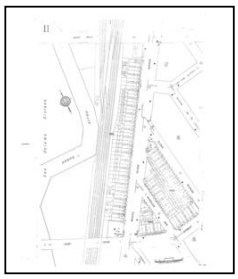

Volume 16, Sheet 14
1978

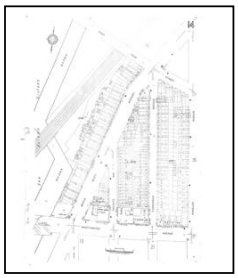
1977 Source Sheets


Volume 16, Sheet 12
1977

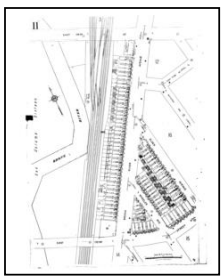

Volume 16, Sheet 13
1977

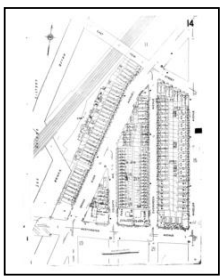

Volume 16, Sheet 14
1977


Volume 17, Sheet 11
1977


Volume 17, Sheet 14
1977

1969 Source Sheets

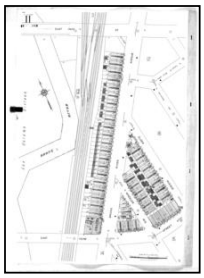

Volume 17, Sheet 11
1969


Volume 17, Sheet 14
1969

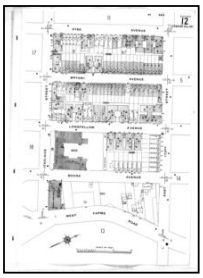
Sanborn Sheet Key

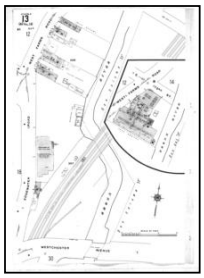
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1950 Source Sheets


Volume 17, Sheet 11
1950

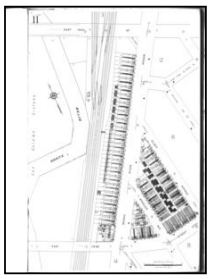

Volume 17, Sheet 14
1950


Volume 16, Sheet 12
1950


Volume 16, Sheet 13
1950

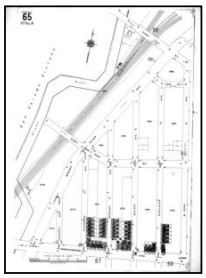

Volume 16, Sheet 14
1950

1928 Source Sheets

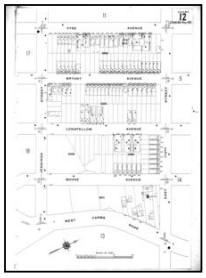

Volume 17, Sheet 11
1928

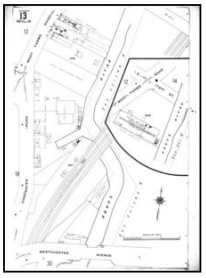

Volume 17, Sheet 14
1928

1919 Source Sheets


Volume 17, Sheet 65
1919

1915 Source Sheets


Volume 16, Sheet 12
1915

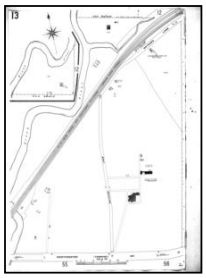

Volume 16, Sheet 13
1915


Volume 16, Sheet 14
1915

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1908 Source Sheets



Volume A, Sheet 13
1908

1903 Source Sheets



Volume Atlas Maps, Sheet 1
1903



Volume Atlas Maps, Sheet 09
1903

1901 Source Sheets



Volume 14, Sheet 46
1901

1896 Source Sheets



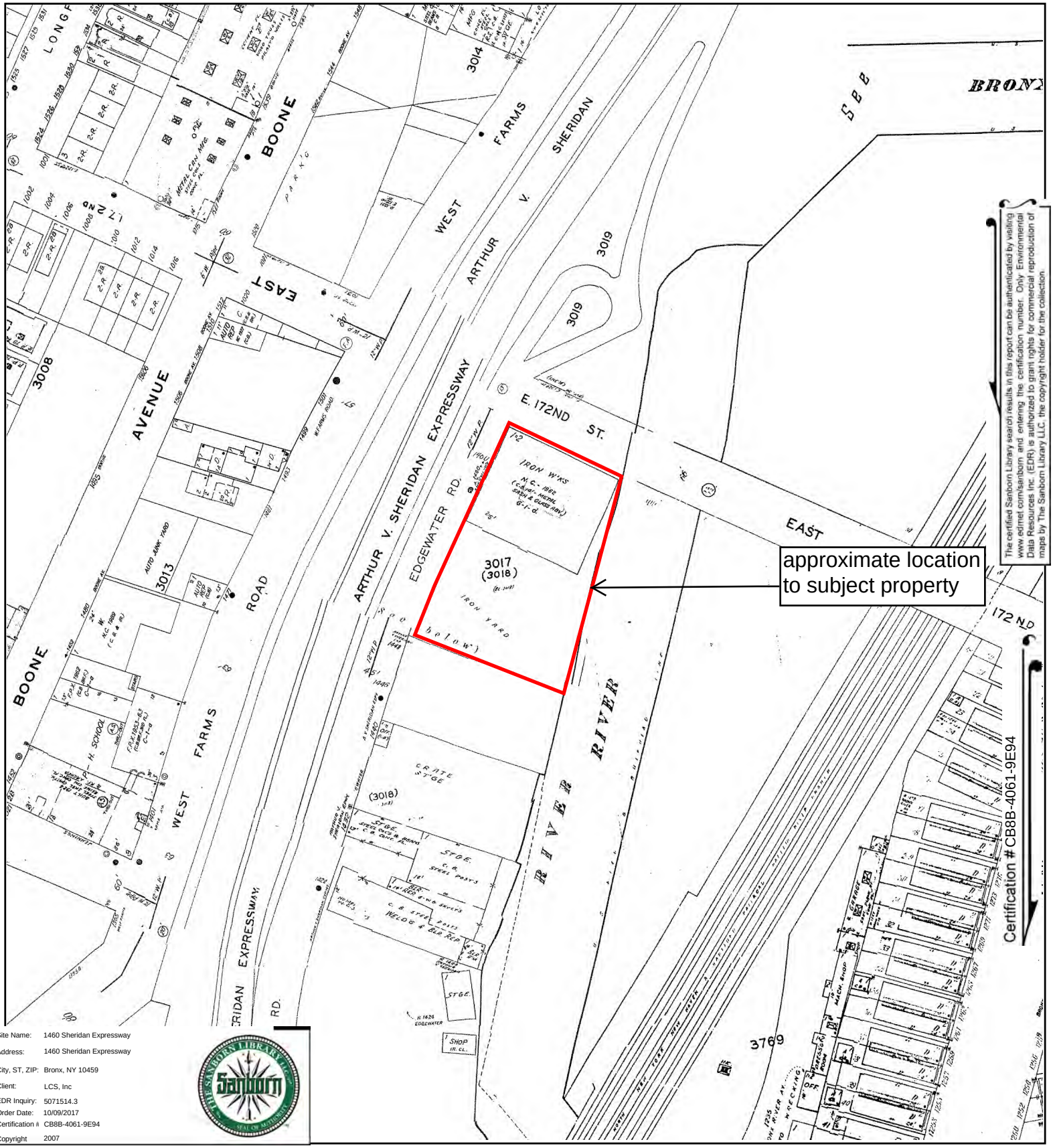
Volume 12, Sheet 260
1896



Volume 12, Sheet 260.5
1896



Volume 12, Sheet 260.5
1896



Site Name:	1460 Sheridan Expressway
Address:	1460 Sheridan Expressway
City, ST, ZIP:	Bronx, NY 10459
Client:	LCS, Inc
EDR Inquiry:	5071514.3
Order Date:	10/09/2017
Certification #:	CB8B-4061-9E94
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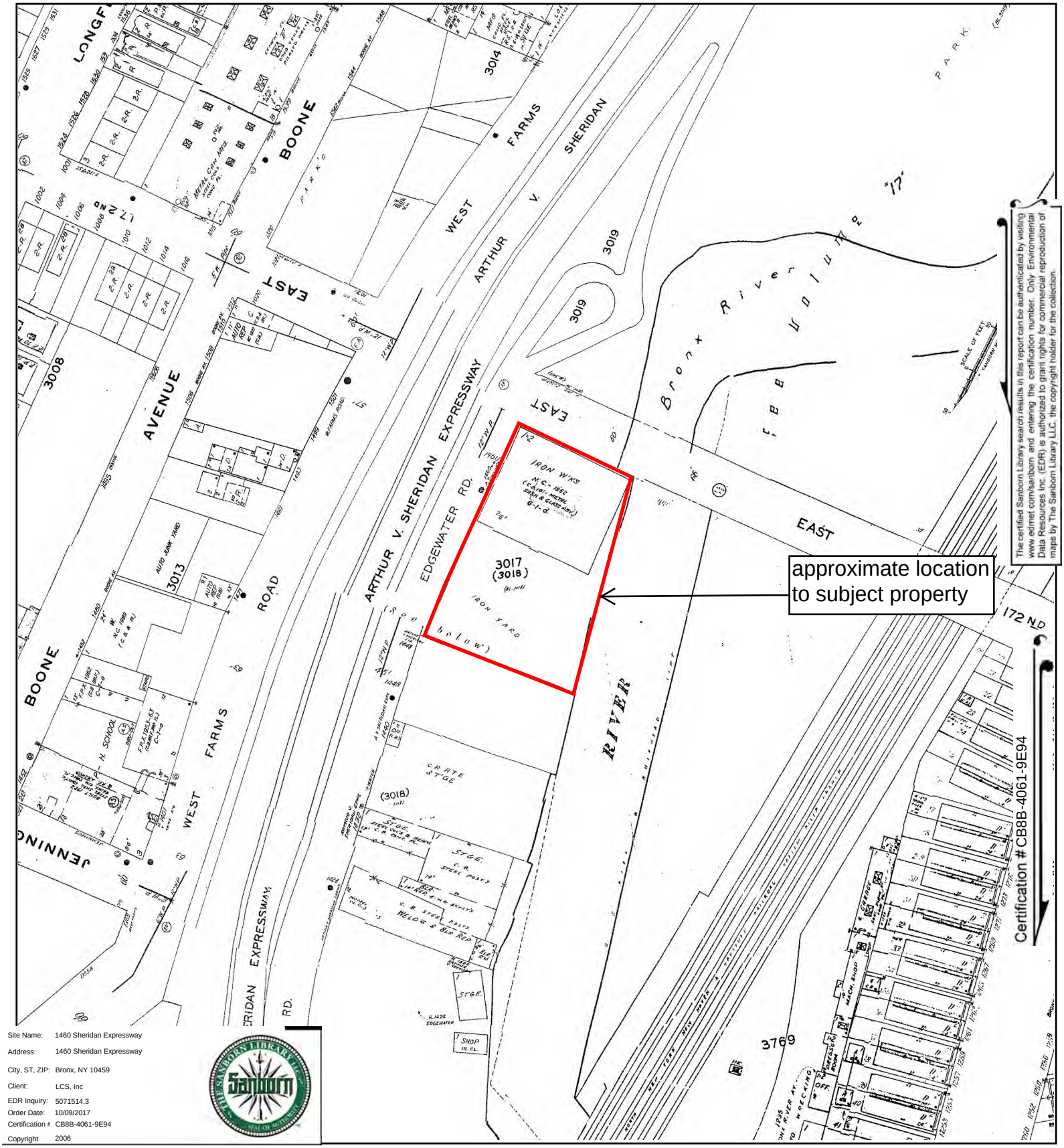




Volume 17, Sheet 14
Volume 17, Sheet 11
Volume 16, Sheet 14
Volume 16, Sheet 13
Volume 16, Sheet 12

0 Feet 150 300 600

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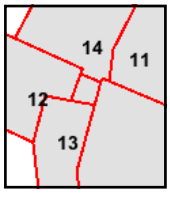
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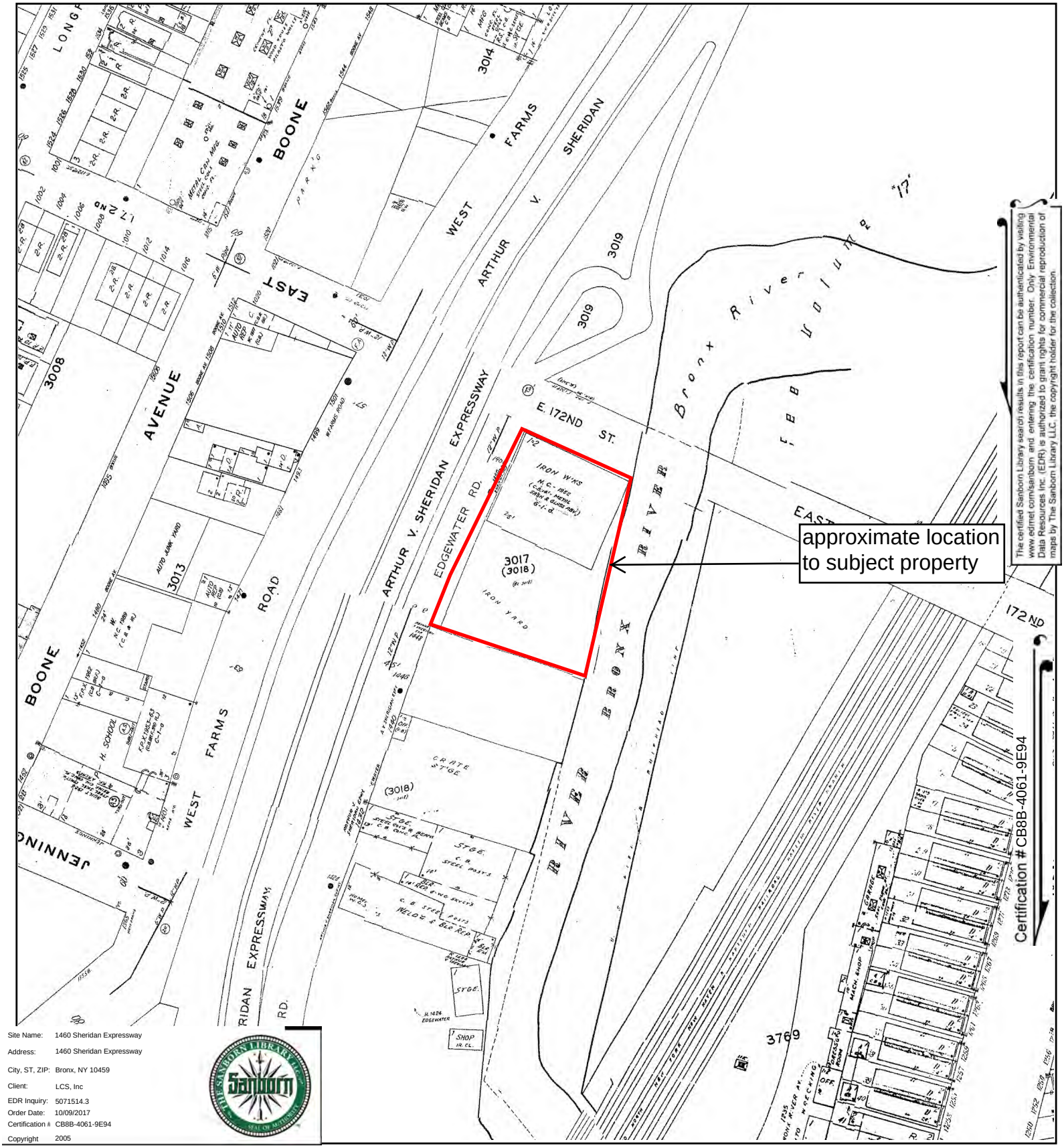
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Volume 16, Sheet 12
Volume 16, Sheet 14
Volume 16, Sheet 13
Volume 17, Sheet 14
Volume 17, Sheet 11

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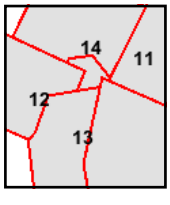
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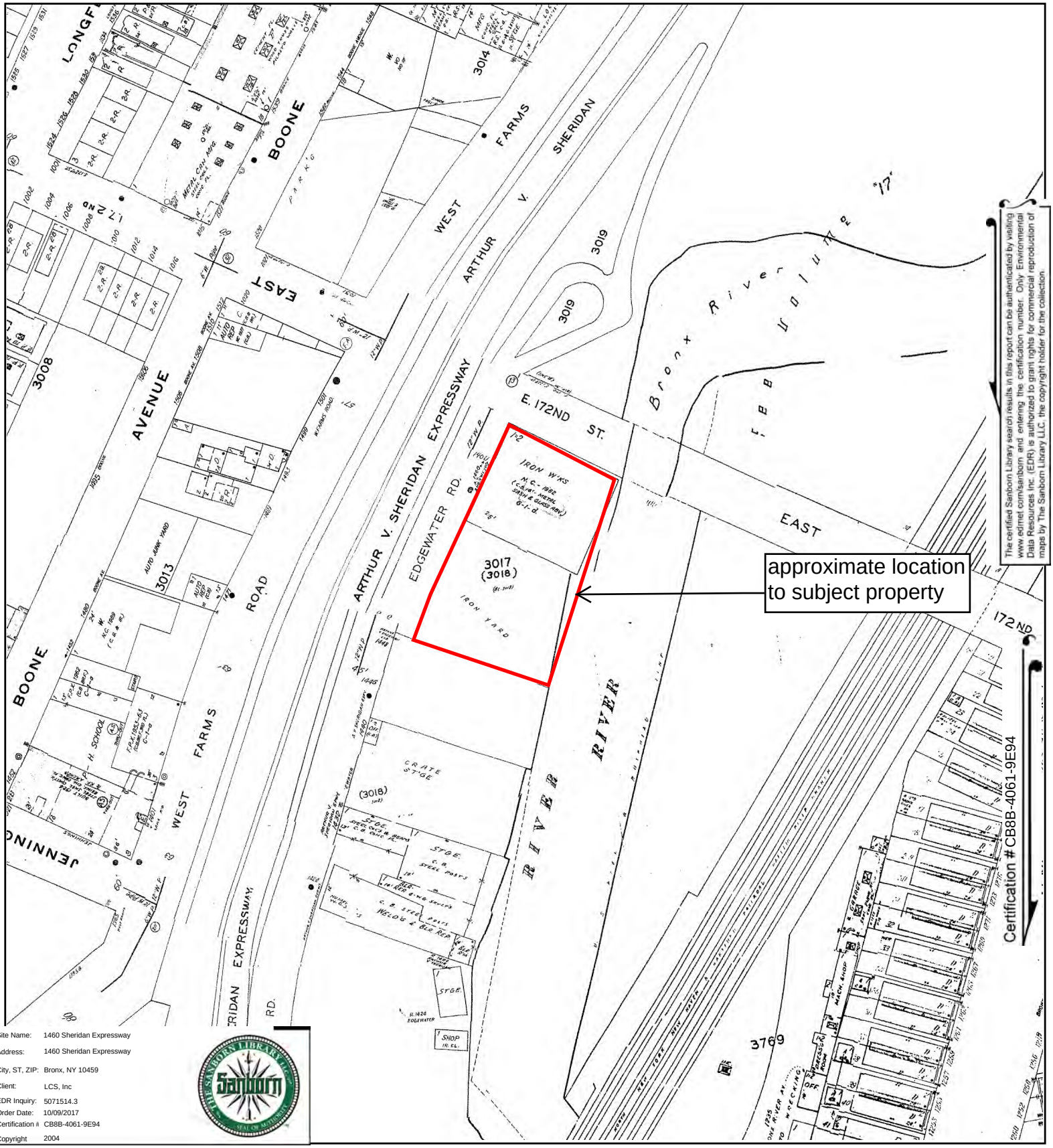
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Volume 17, Sheet 11
Volume 16, Sheet 12
Volume 16, Sheet 13
Volume 16, Sheet 14

N

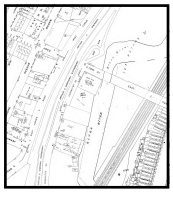


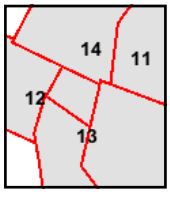
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Certification #	CB8B-4061-9E94
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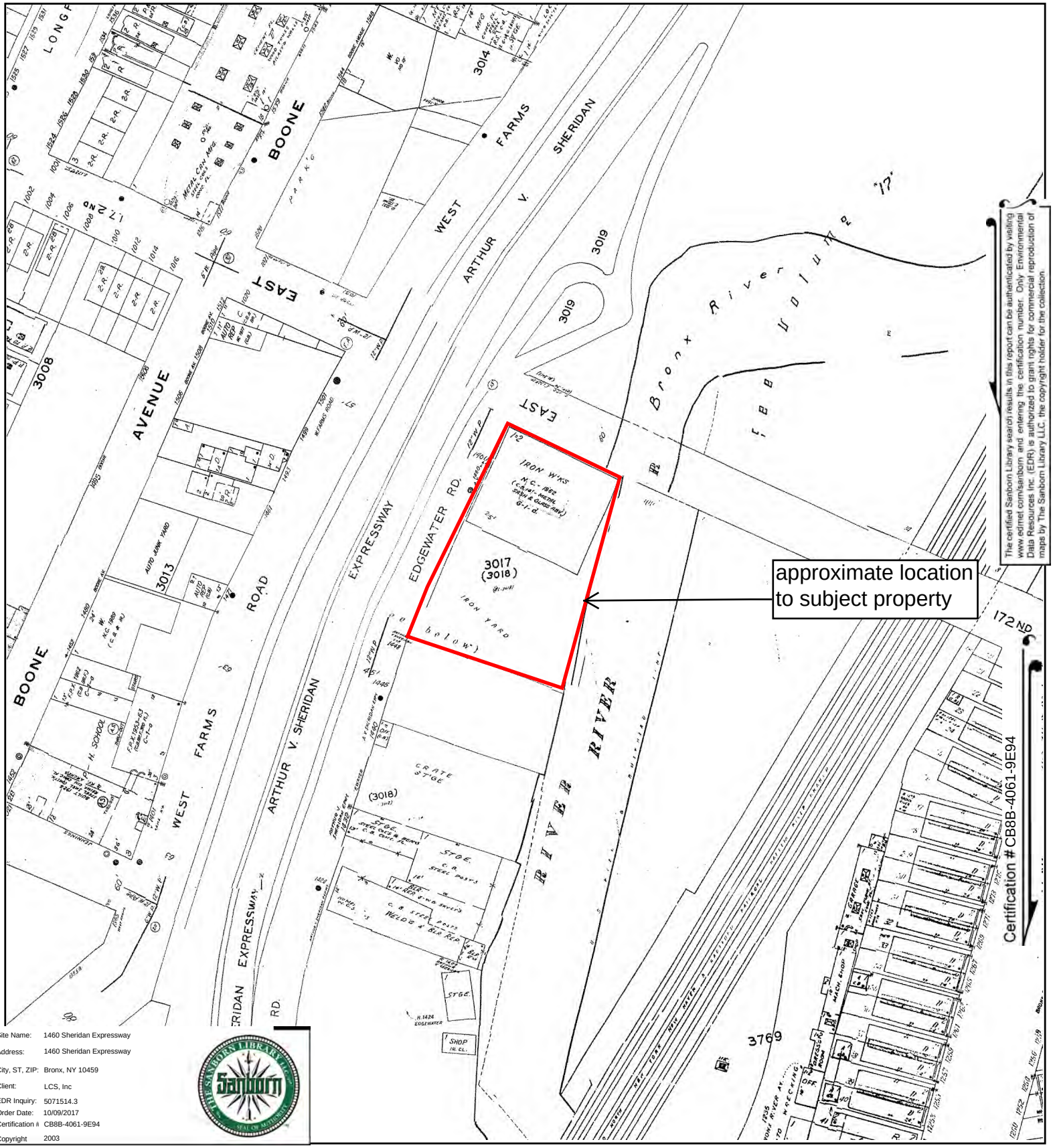
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Volume 16, Sheet 13
Volume 16, Sheet 12
Volume 17, Sheet 14
Volume 17, Sheet 11

N

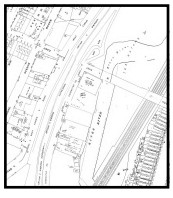


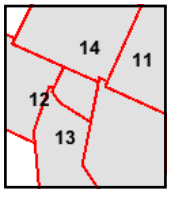
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City, ST, ZIP:	Bronx, NY 10459
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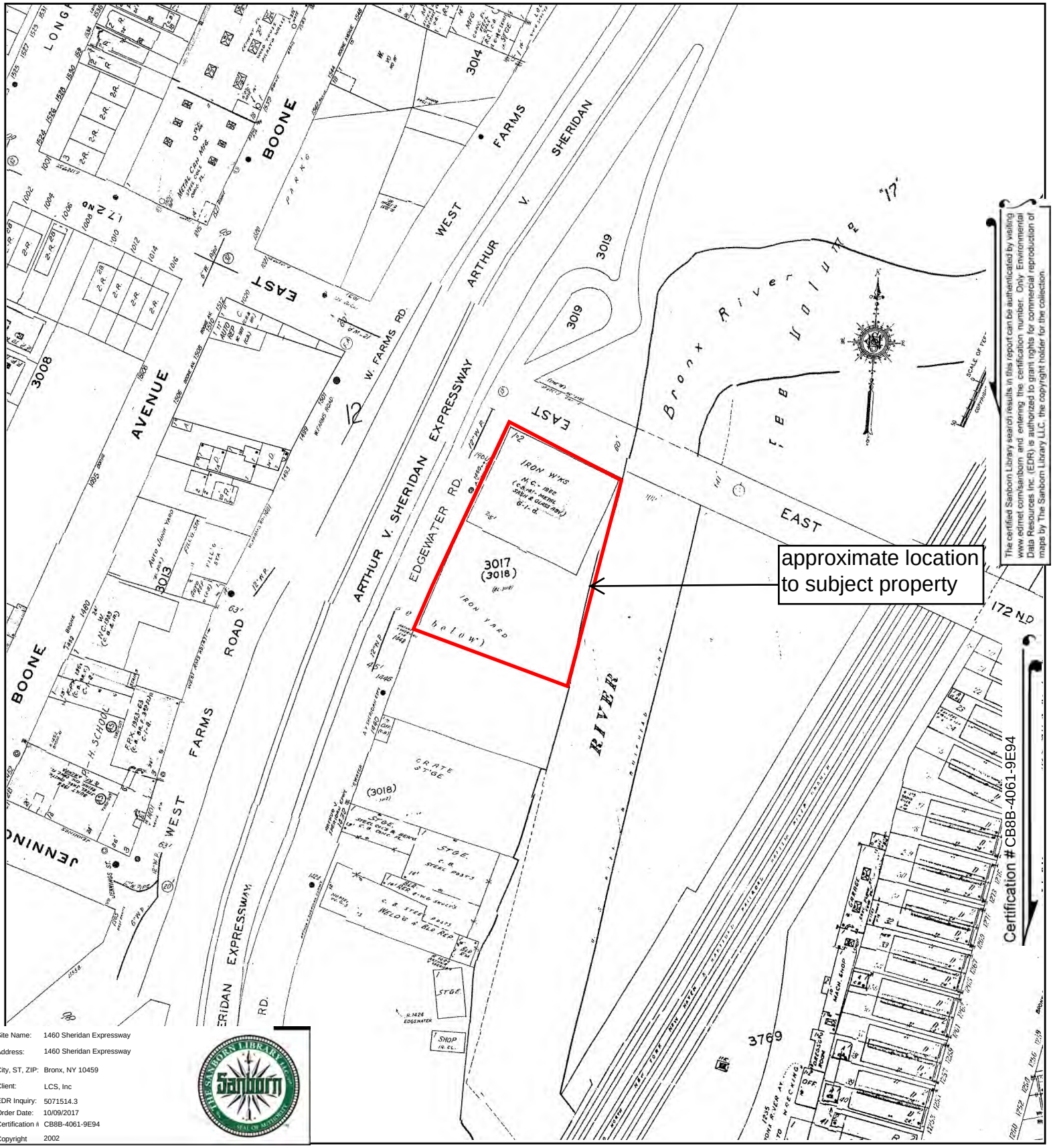
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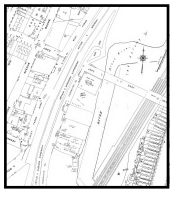
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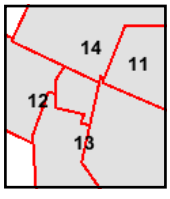


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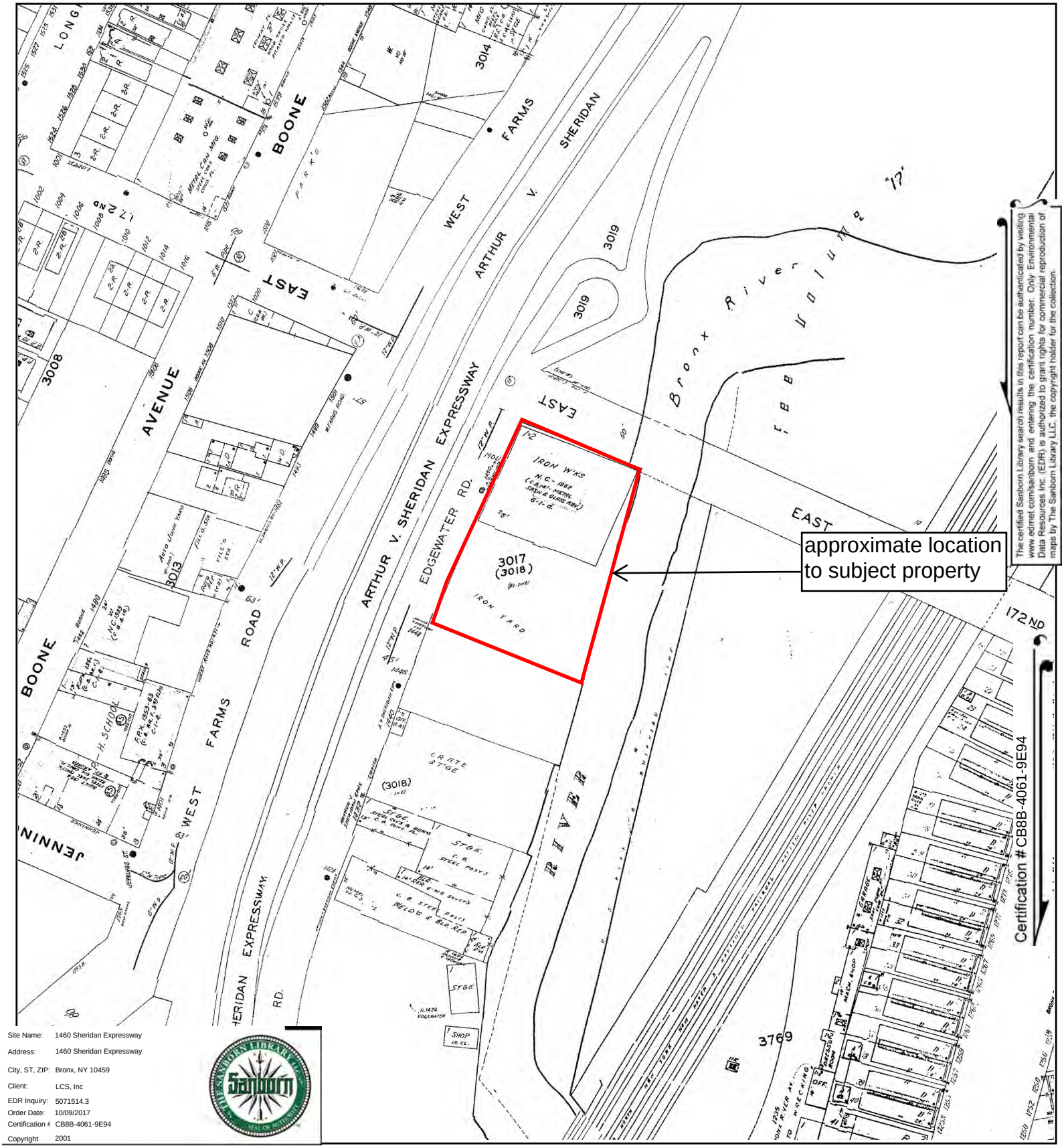
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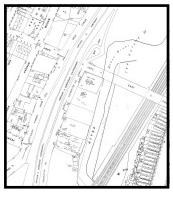
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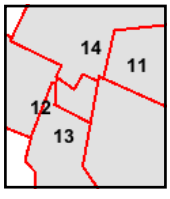
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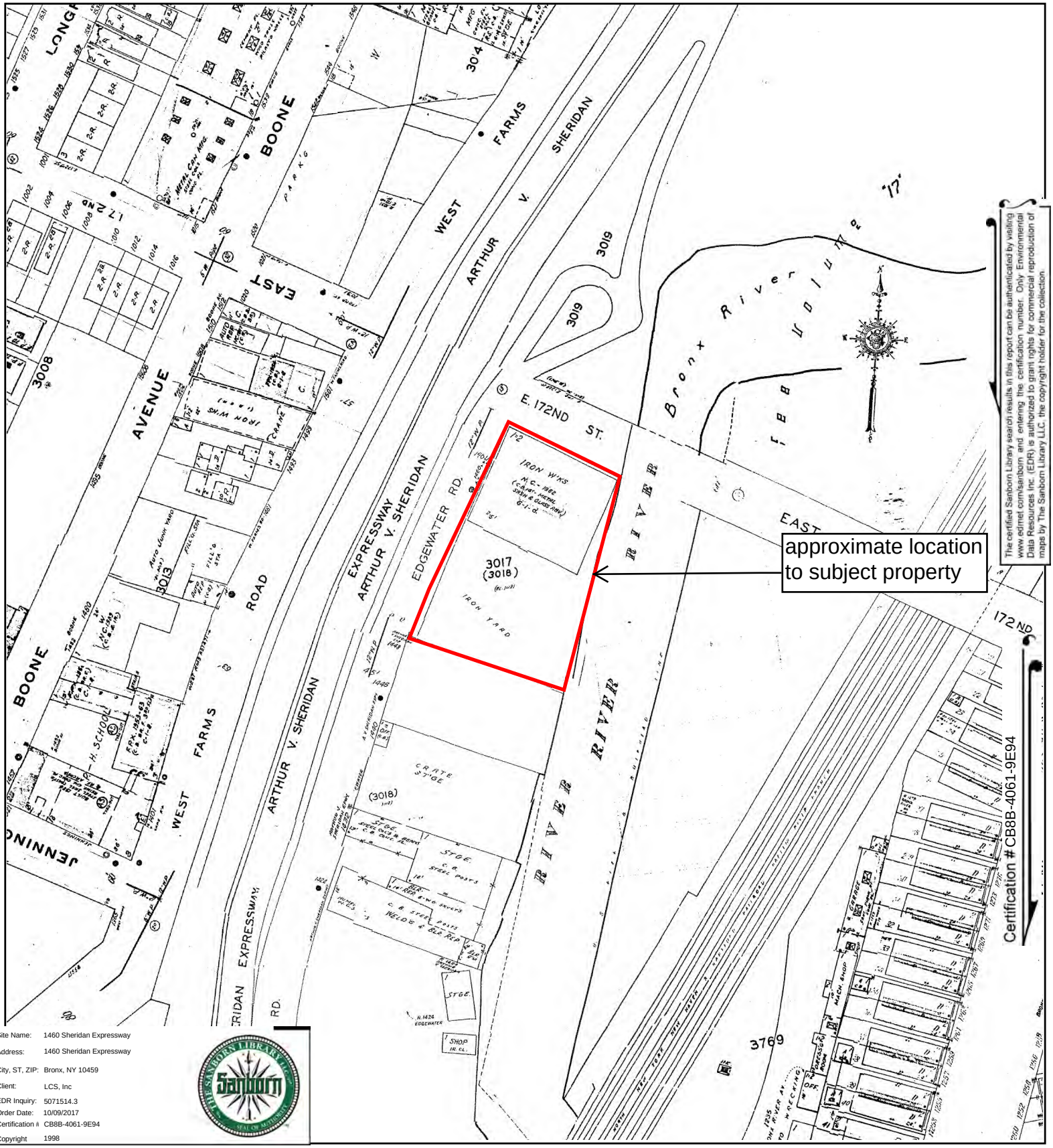




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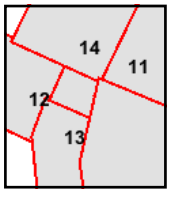
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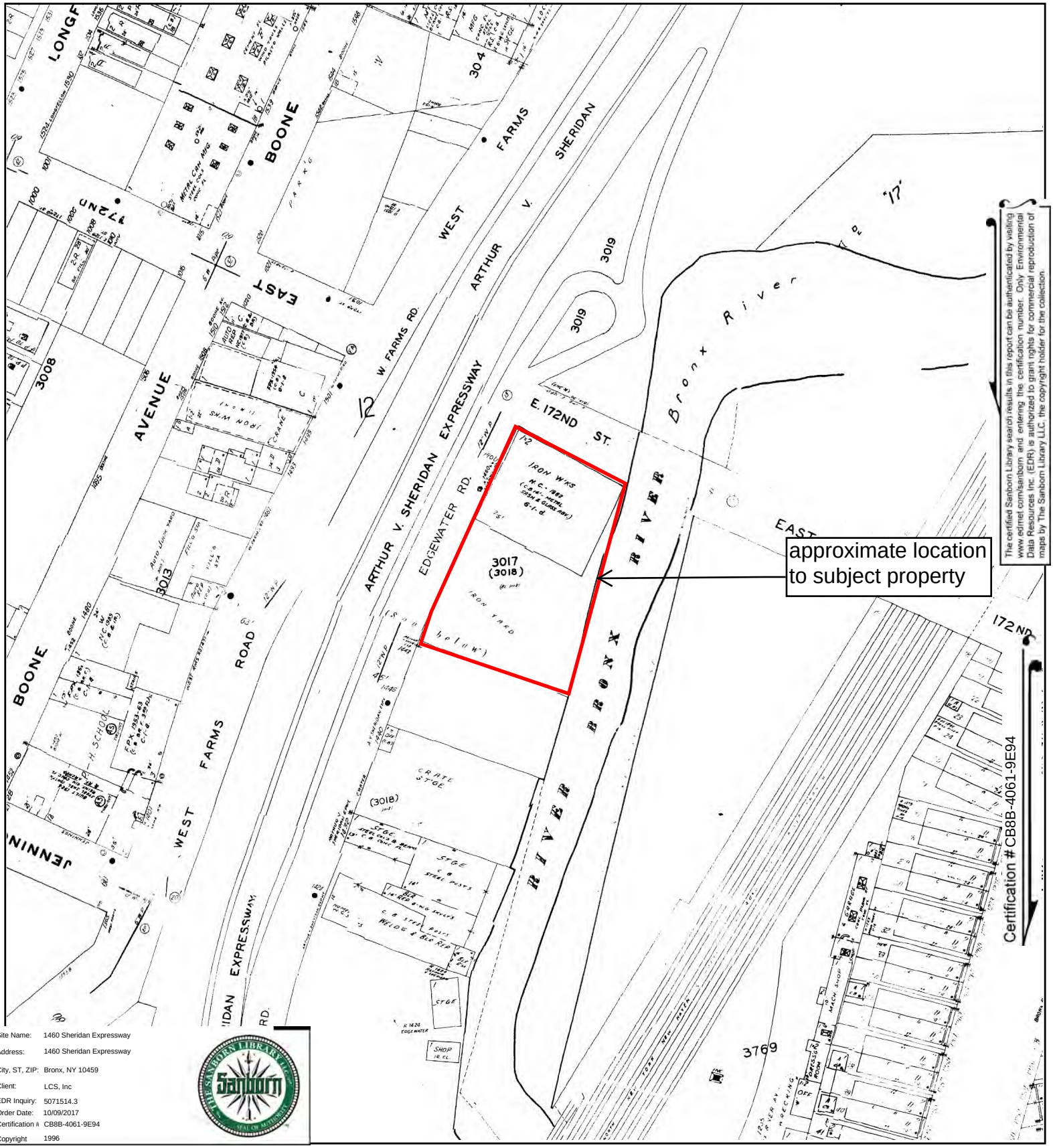




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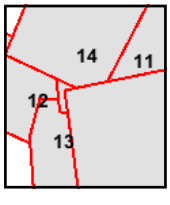
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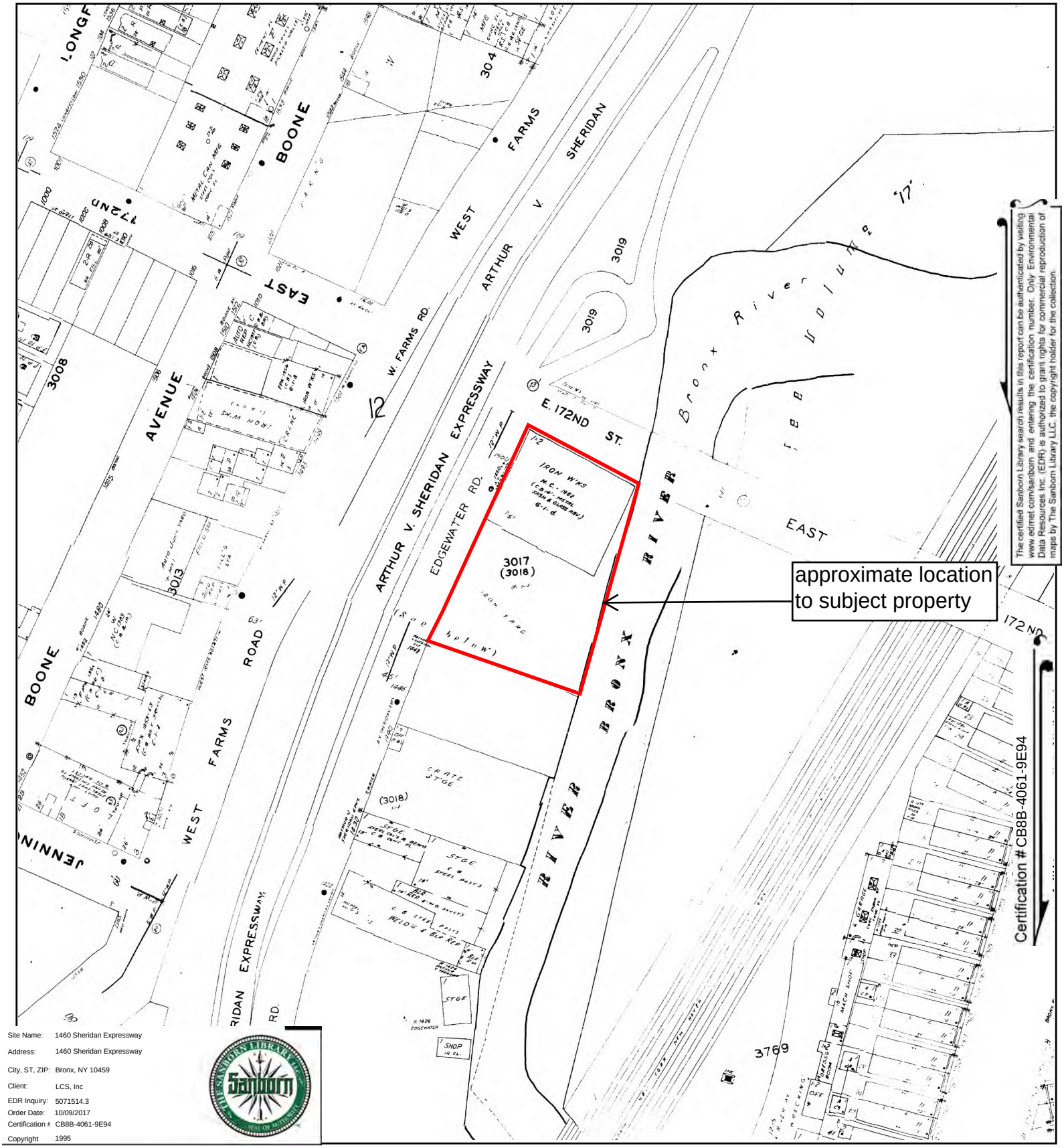
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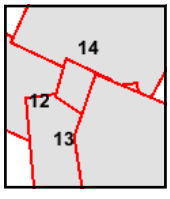
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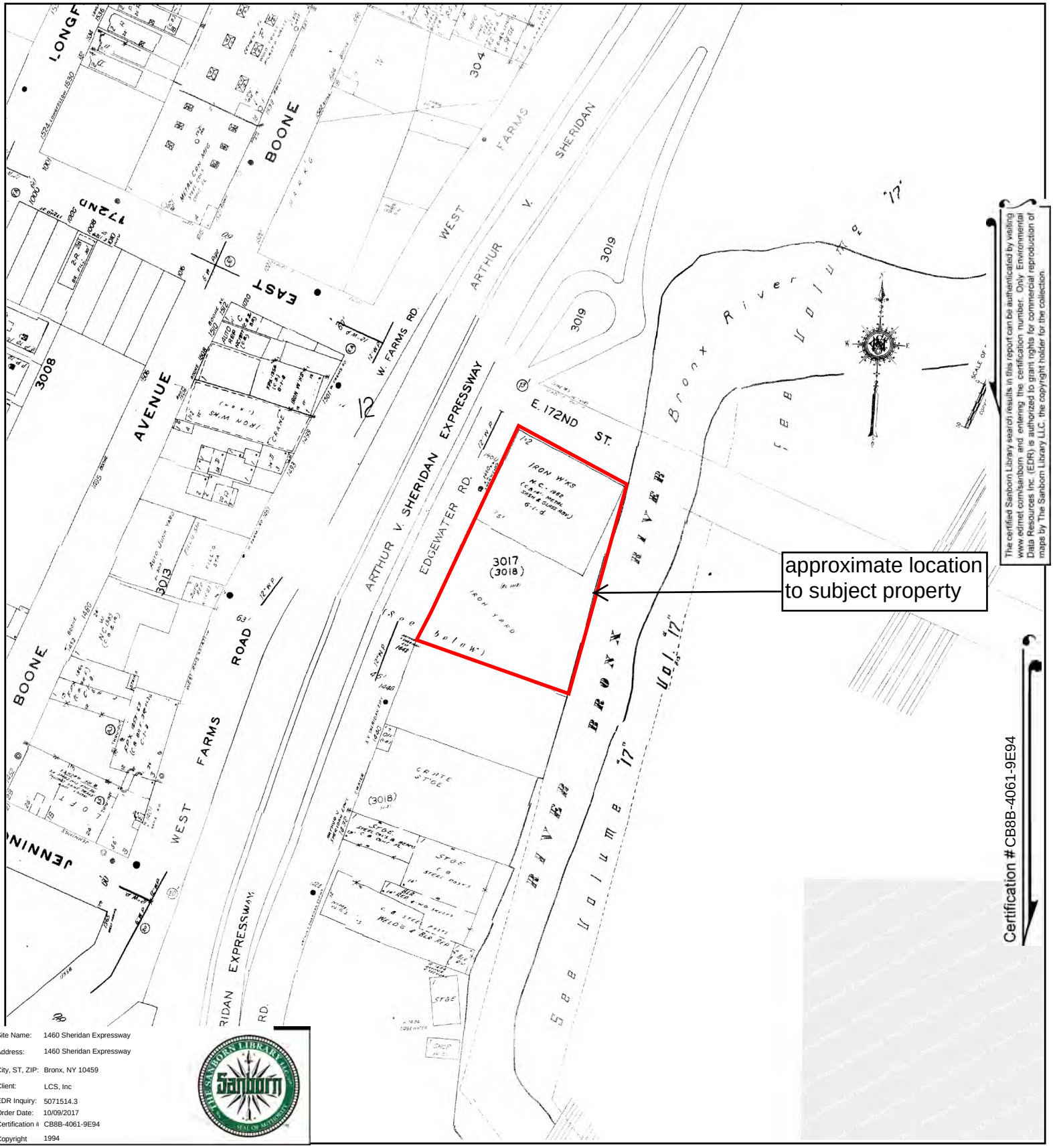




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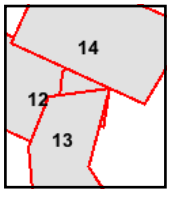


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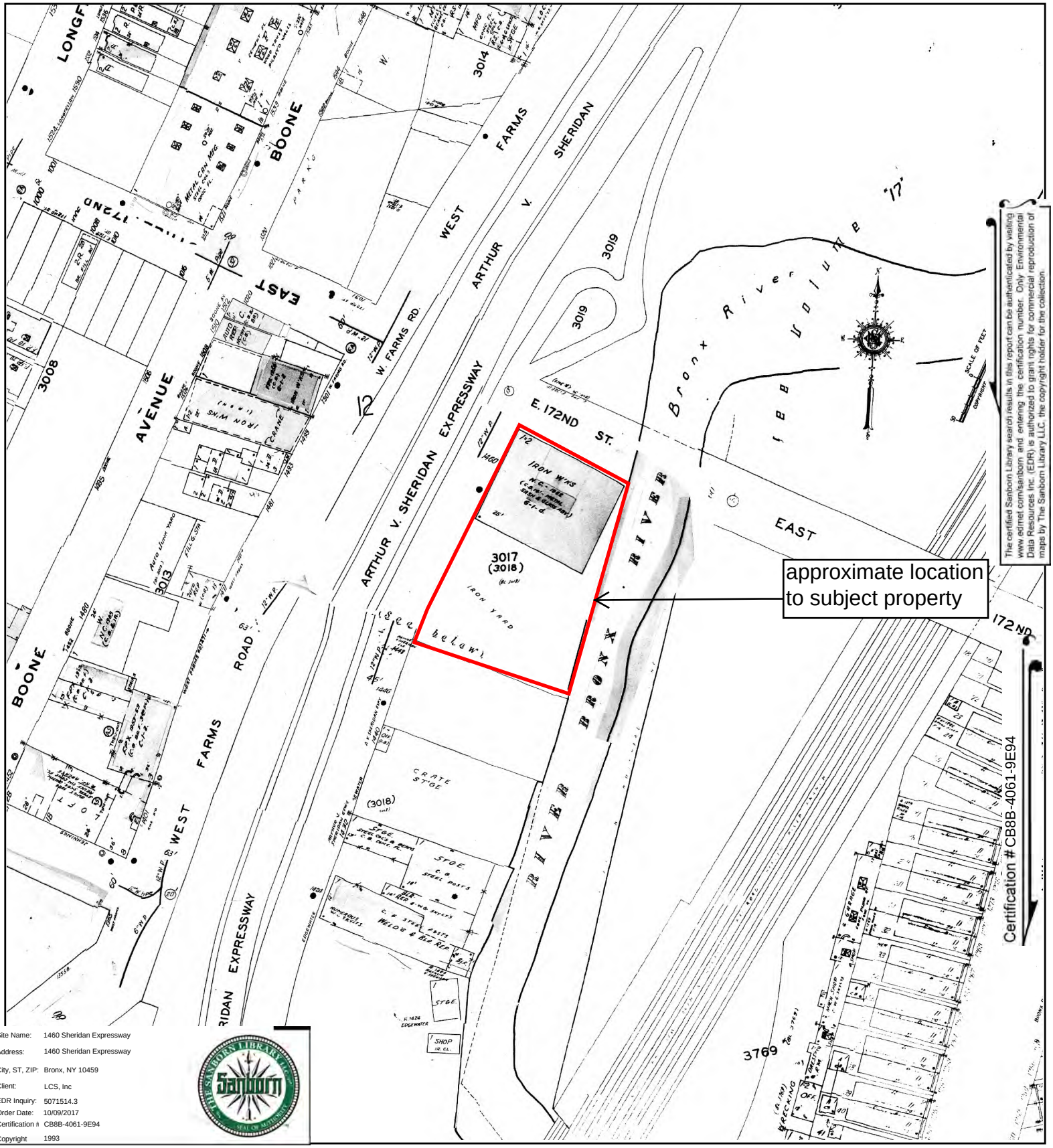




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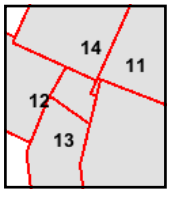
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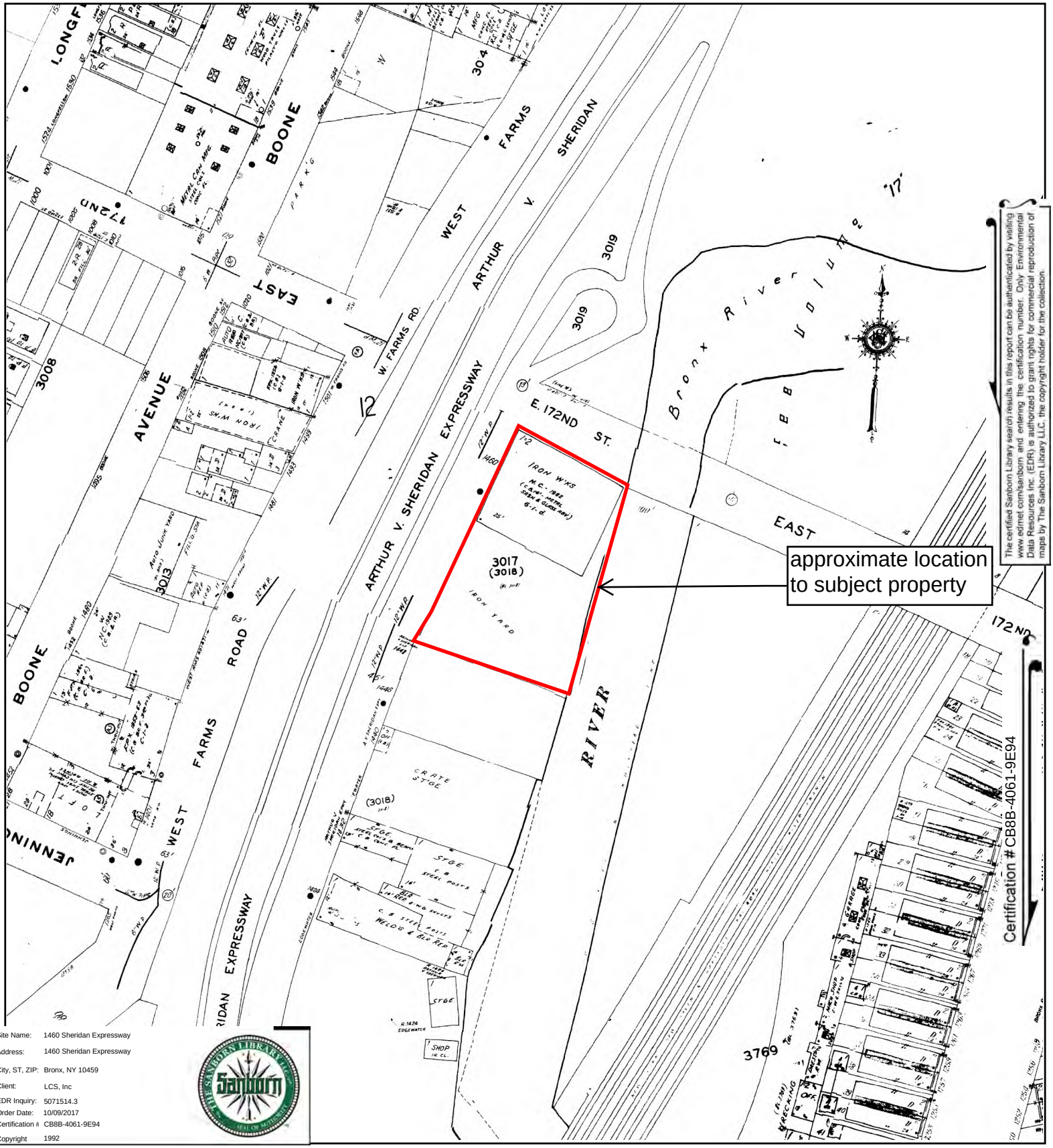




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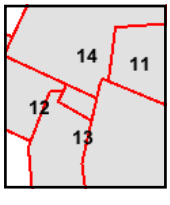


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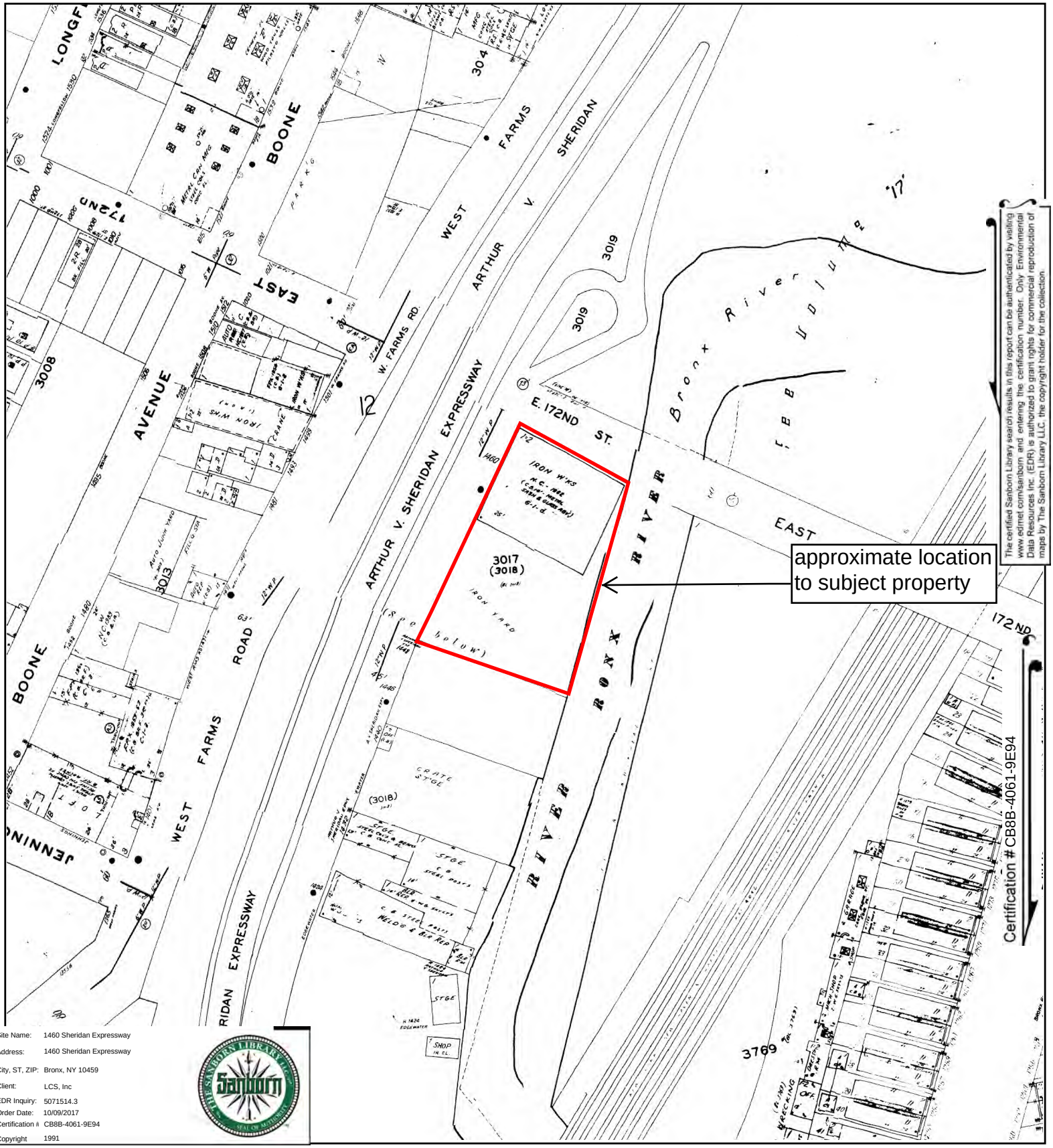




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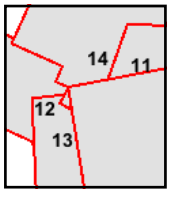


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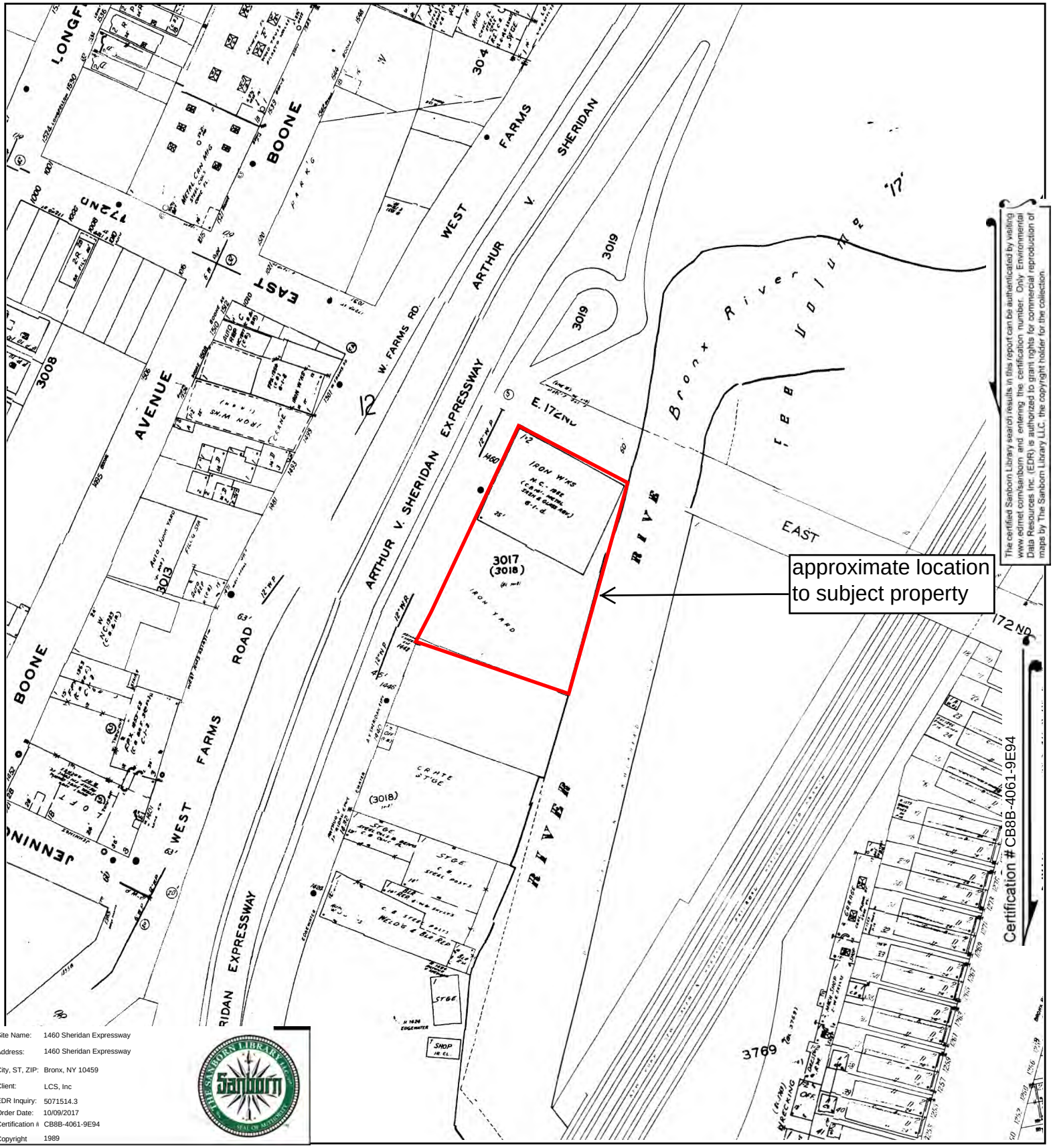
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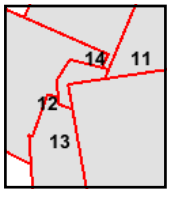
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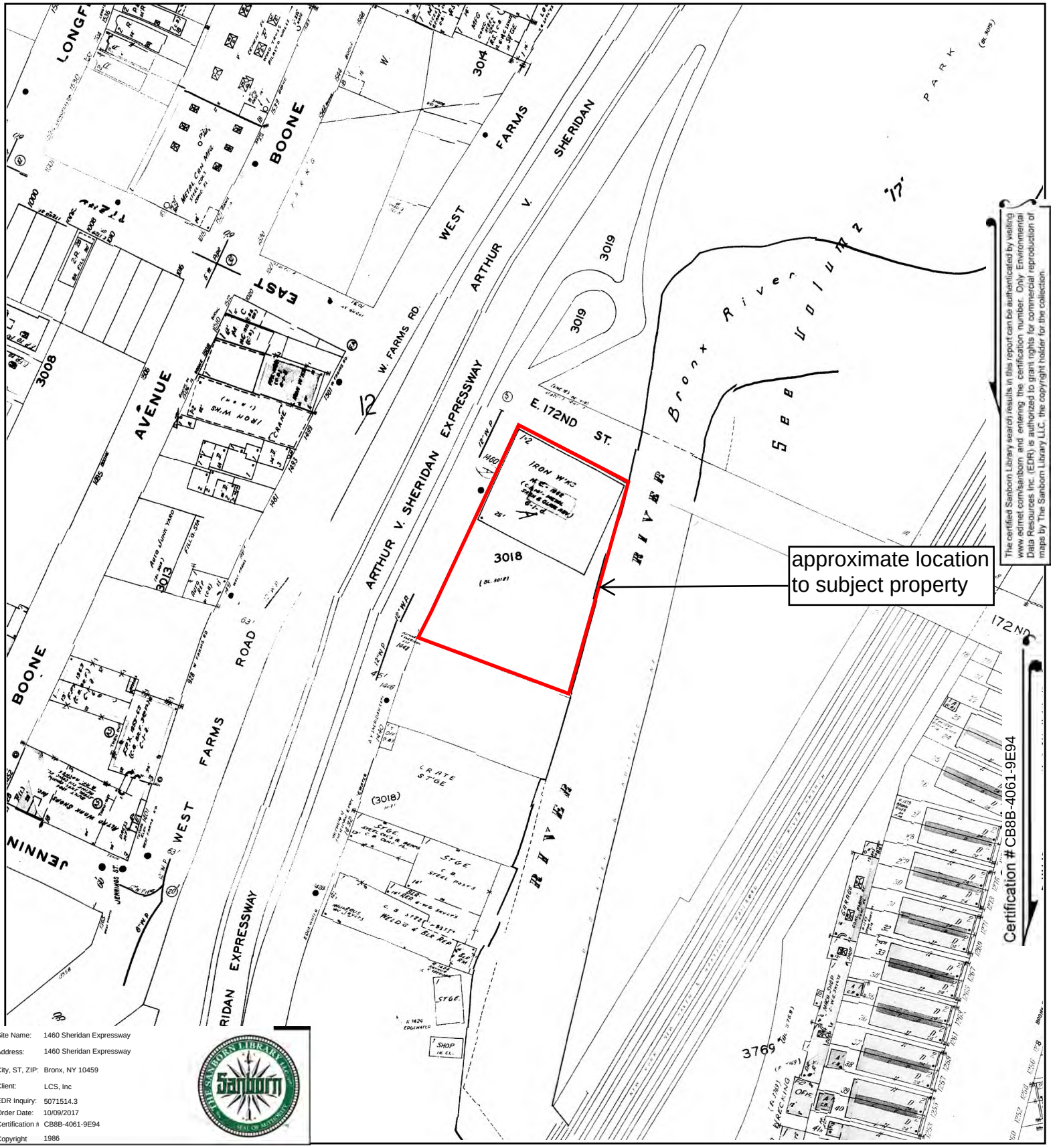
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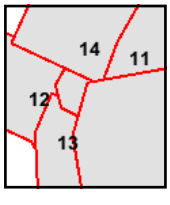
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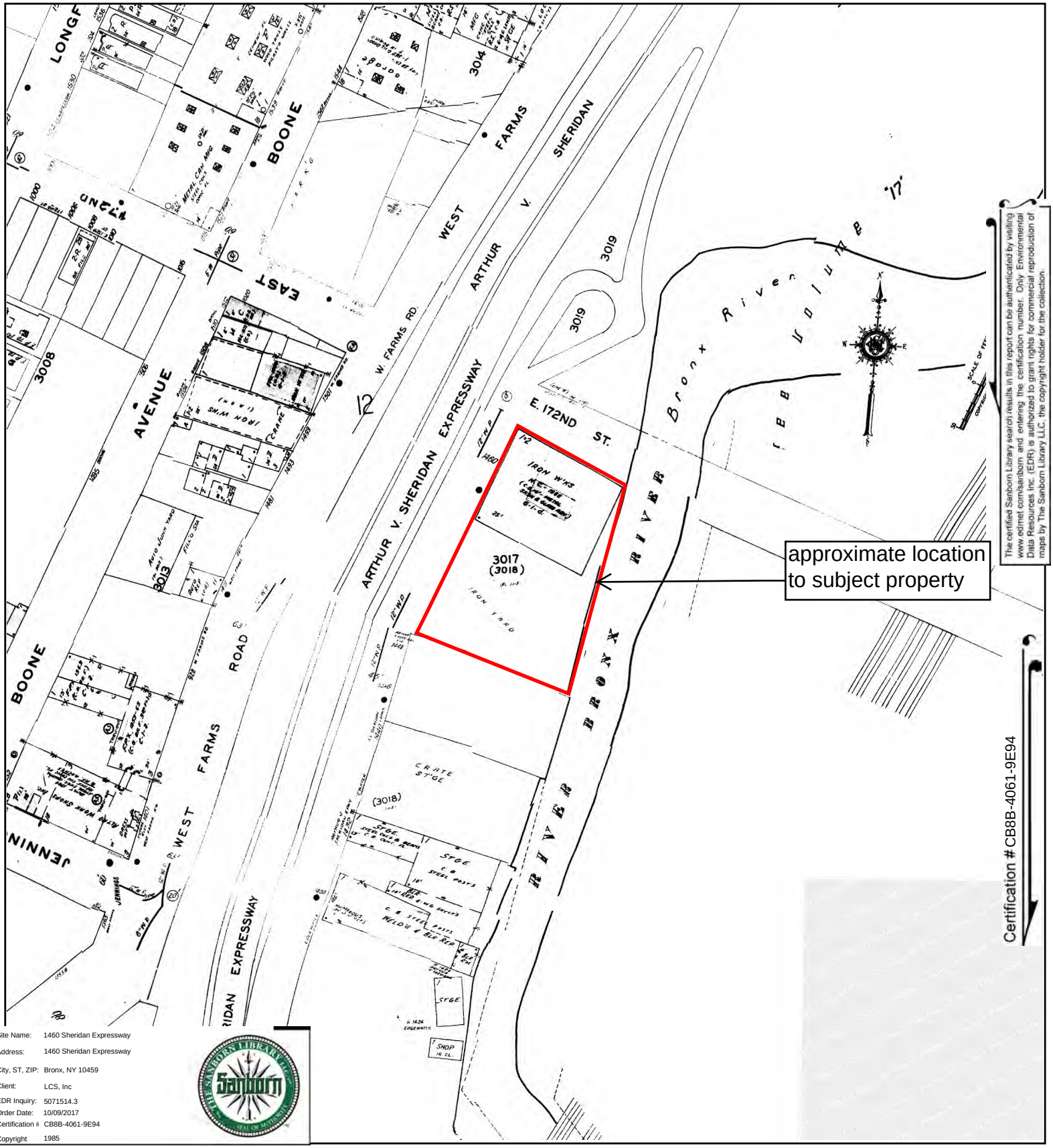




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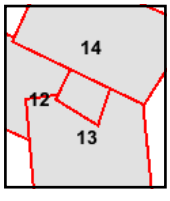


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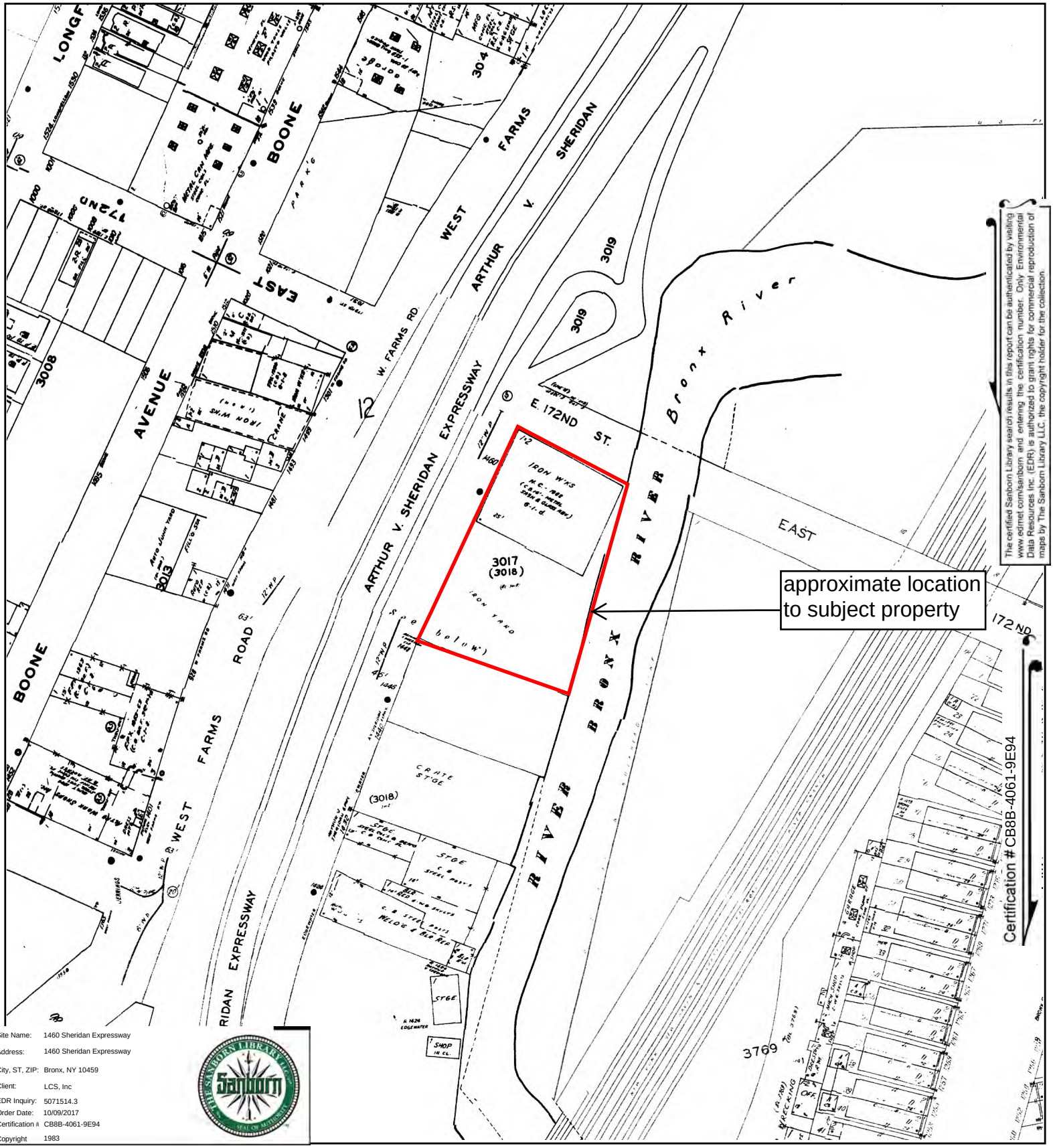
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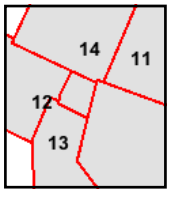
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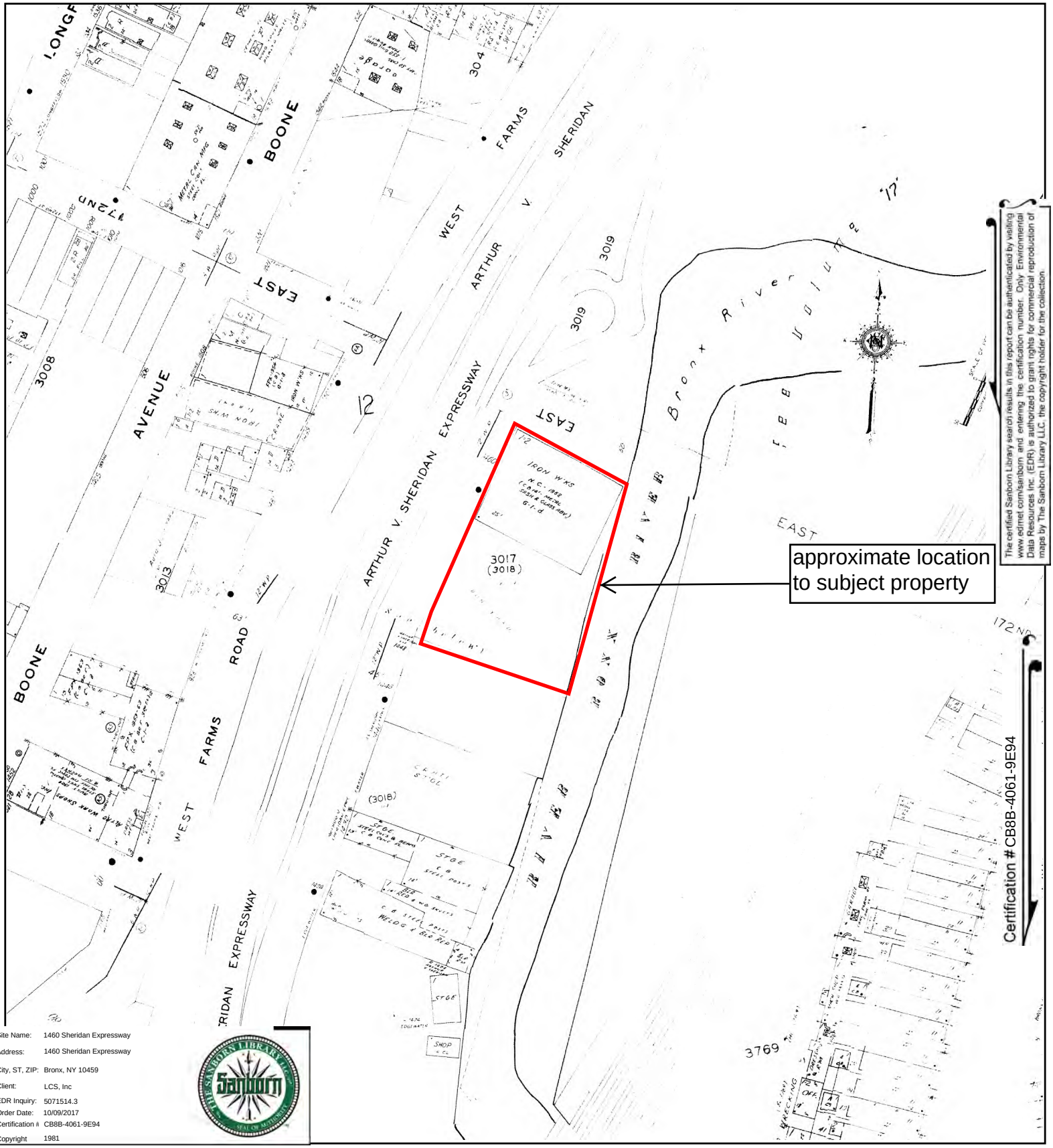
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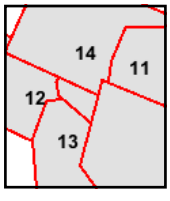
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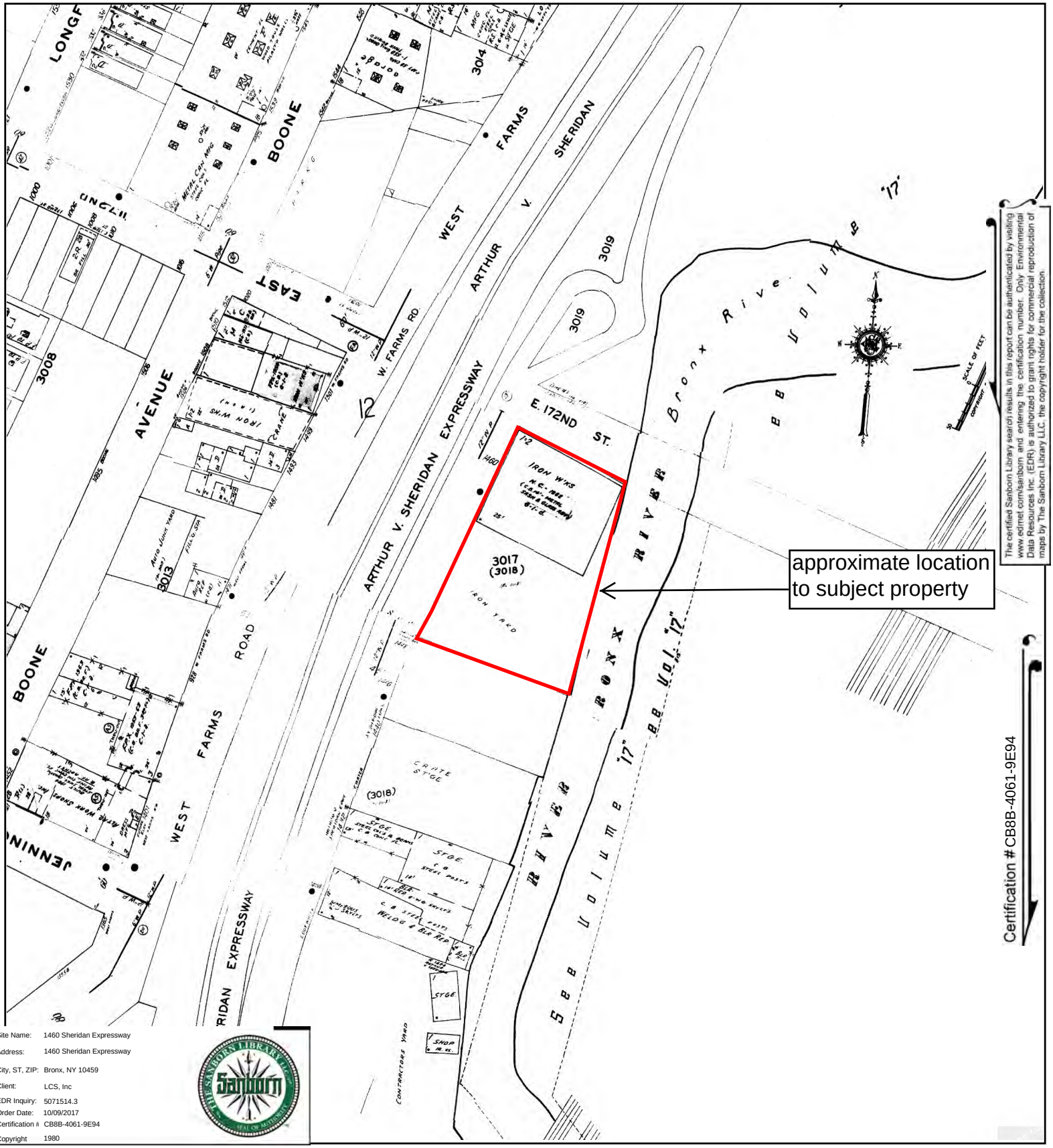




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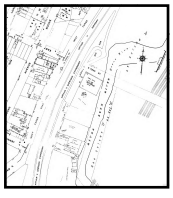
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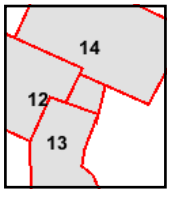


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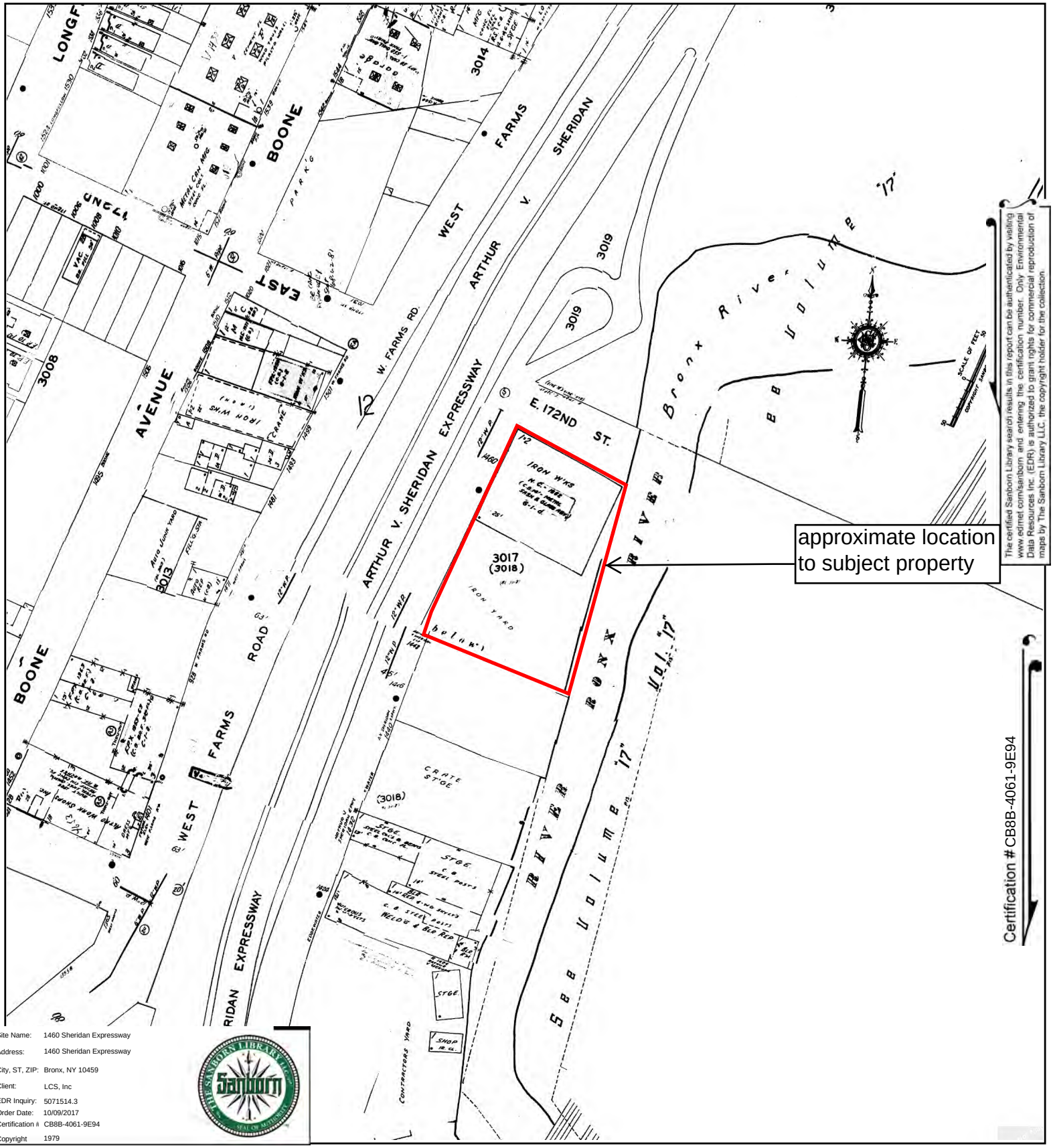




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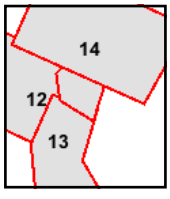
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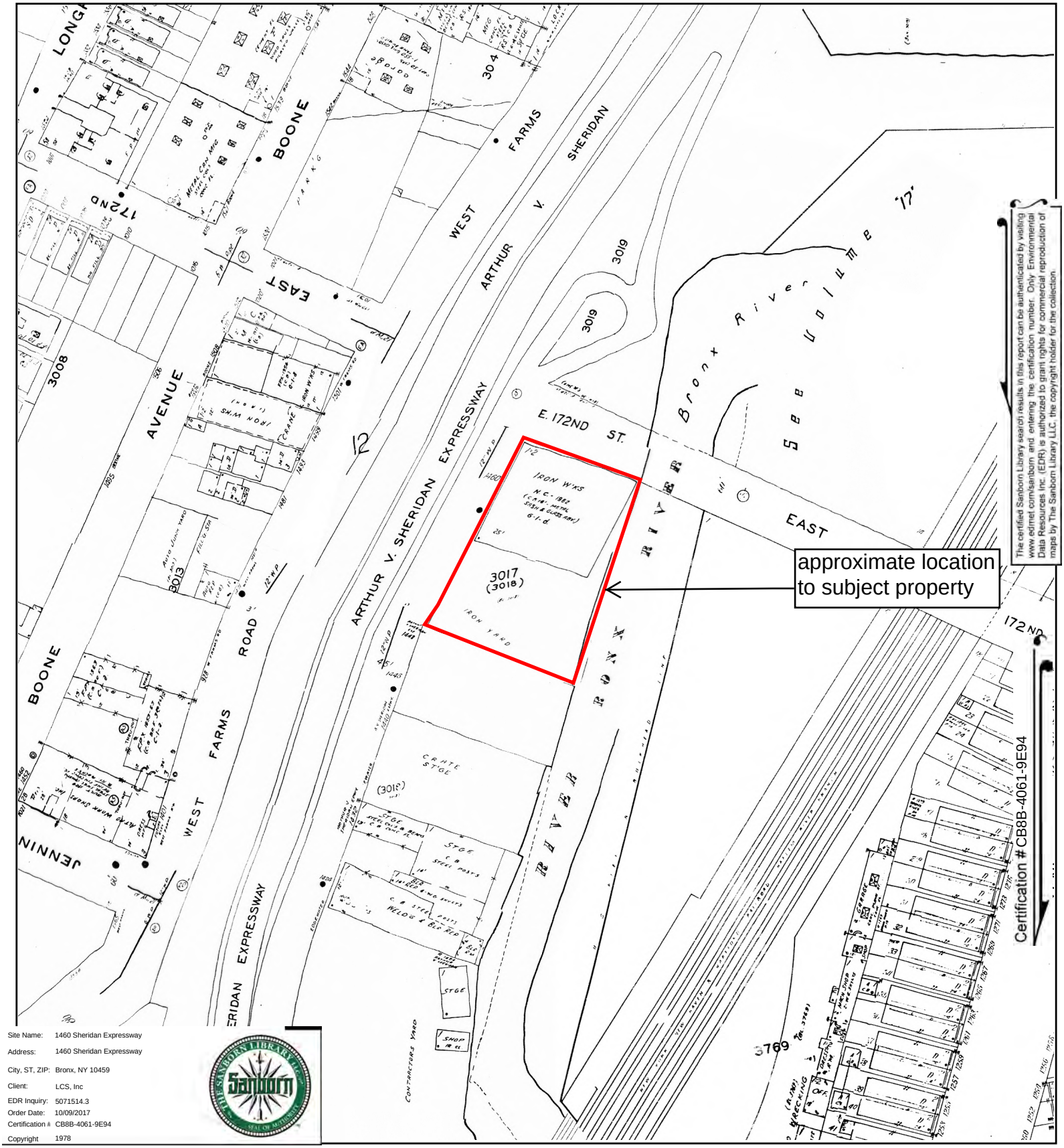




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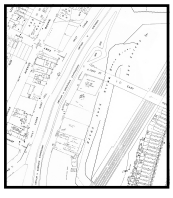
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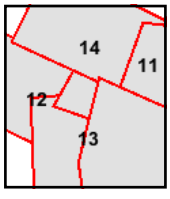


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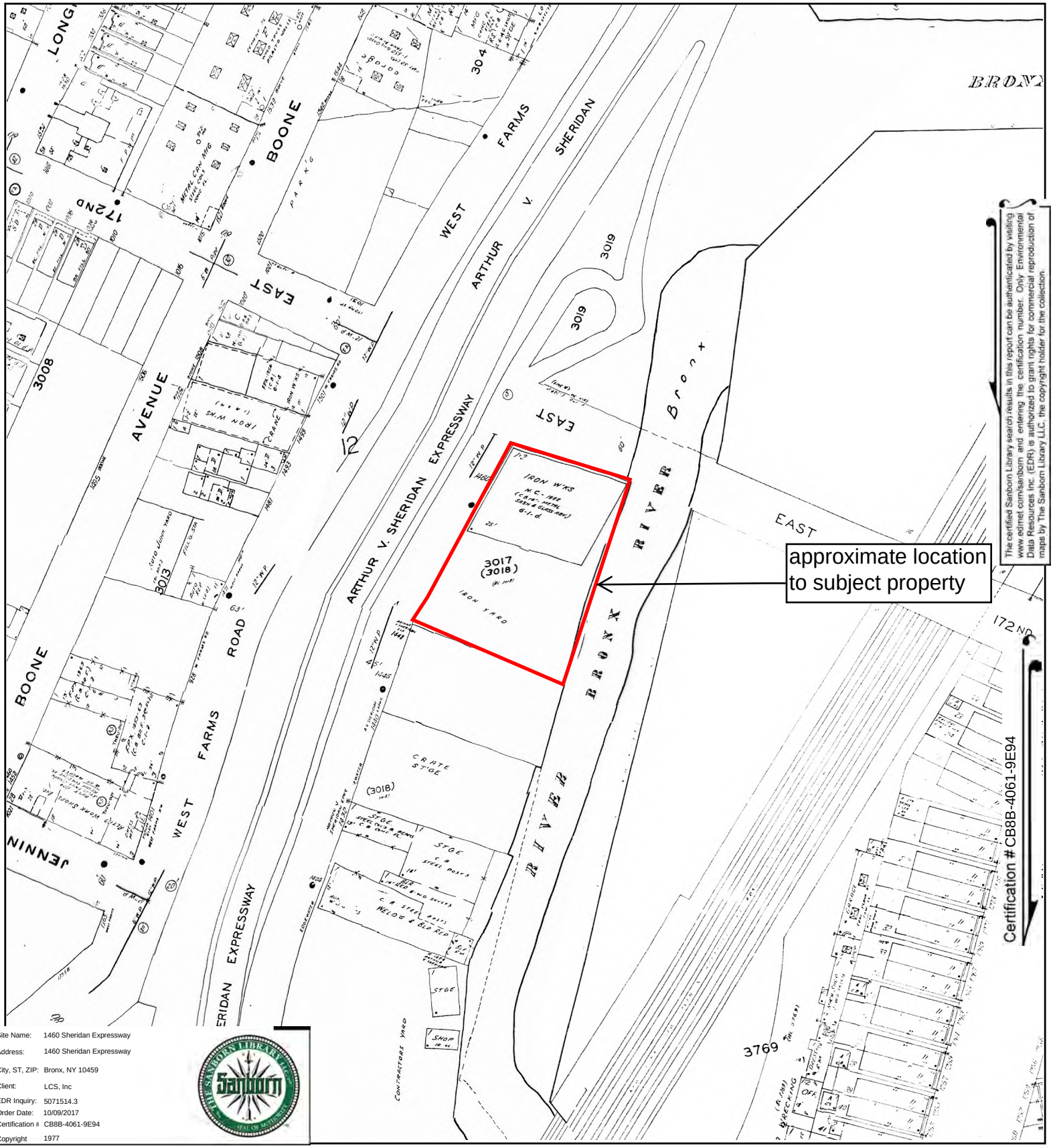
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Volume 16, Sheet 12
Volume 17, Sheet 14
Volume 17, Sheet 11

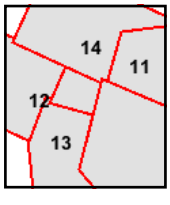
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Site Name:	1460 Sheridan Expressway
Address:	1460 Sheridan Expressway
City, ST, ZIP:	Bronx, NY 10459
Client:	LCS, Inc
EDR Inquiry:	5071514.3
Order Date:	10/09/2017
Certification #:	CB8B-4061-9E94
Copyright	1977

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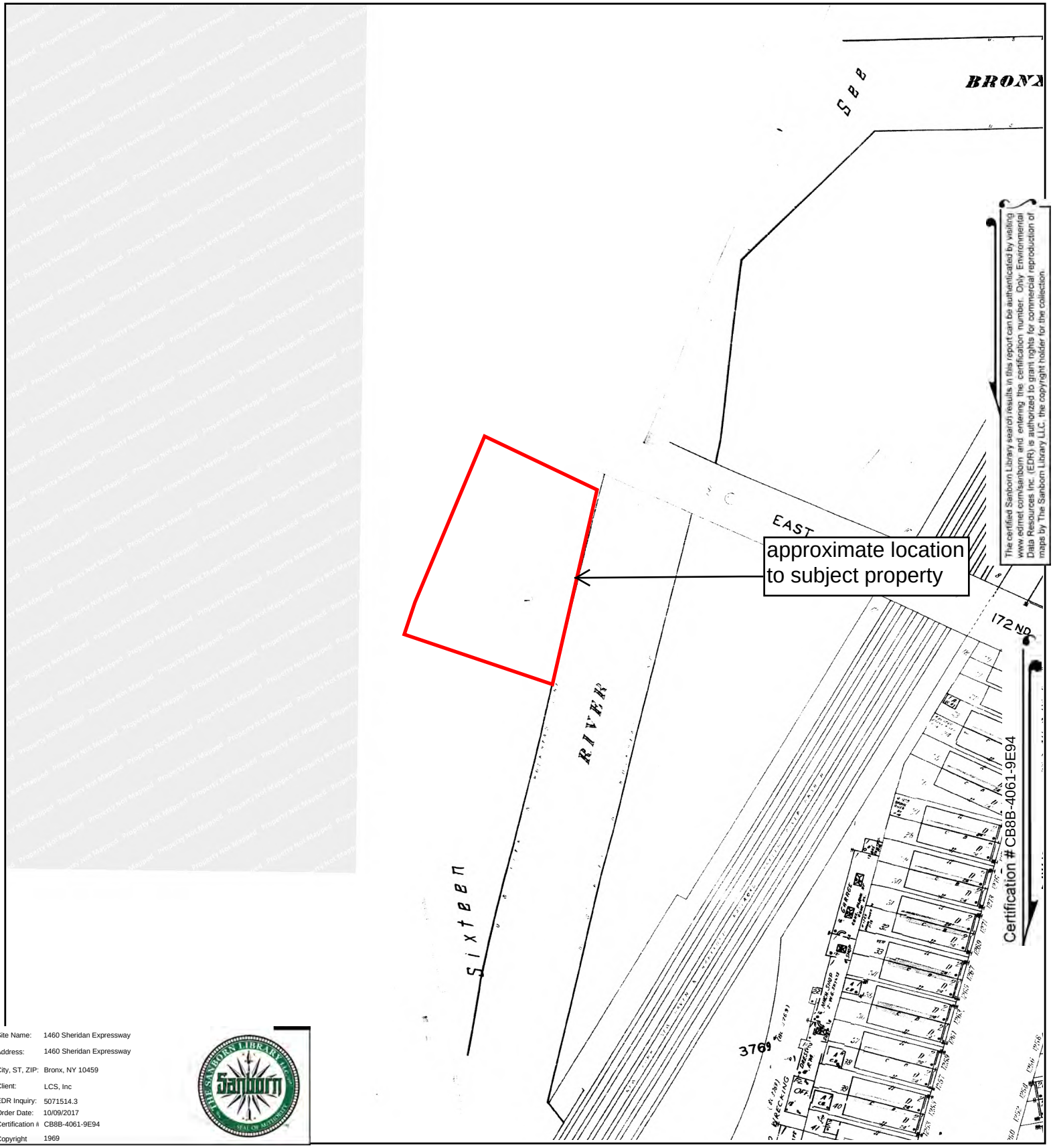




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Volume 16, Sheet 14
Volume 16, Sheet 13
Volume 16, Sheet 12

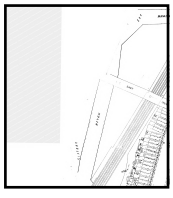
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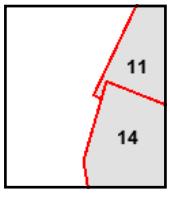
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Site Name: 1460 Sheridan Expressway
Address: 1460 Sheridan Expressway
City, ST, ZIP: Bronx, NY 10459
Client: LCS, Inc
EDR Inquiry: 5071514.3
Order Date: 10/09/2017
Certification #: CB8B-4061-9E94
Copyright: 1969

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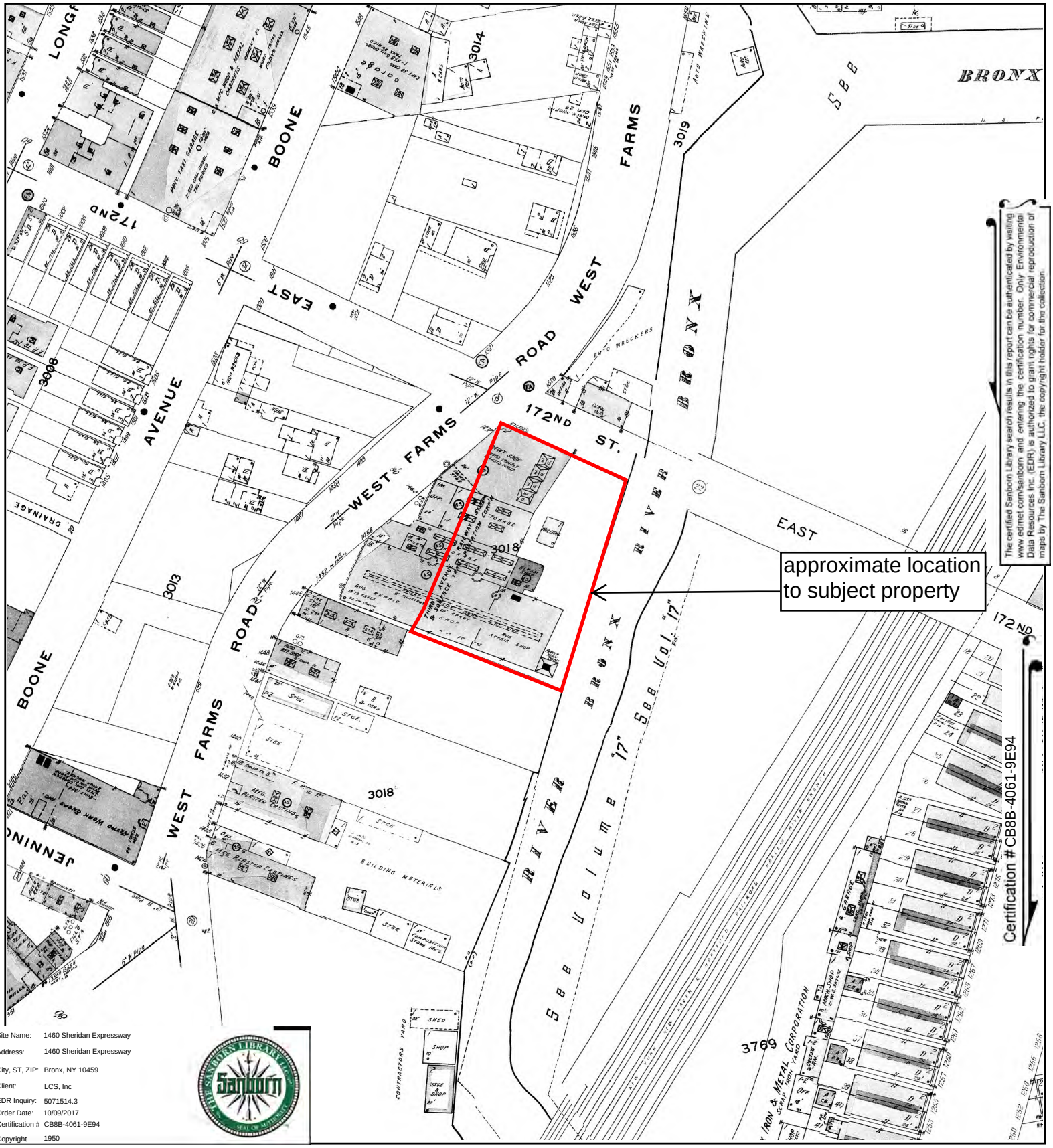




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0 Feet 150 300 600

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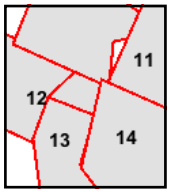


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Address: 1460 Sheridan Expressway
City, ST, ZIP: Bronx, NY 10459
Client: LCS, Inc
EDR Inquiry: 5071514.3
Order Date: 10/09/2017
Certification #: CB8B-4061-9E94
Copyright: 1950

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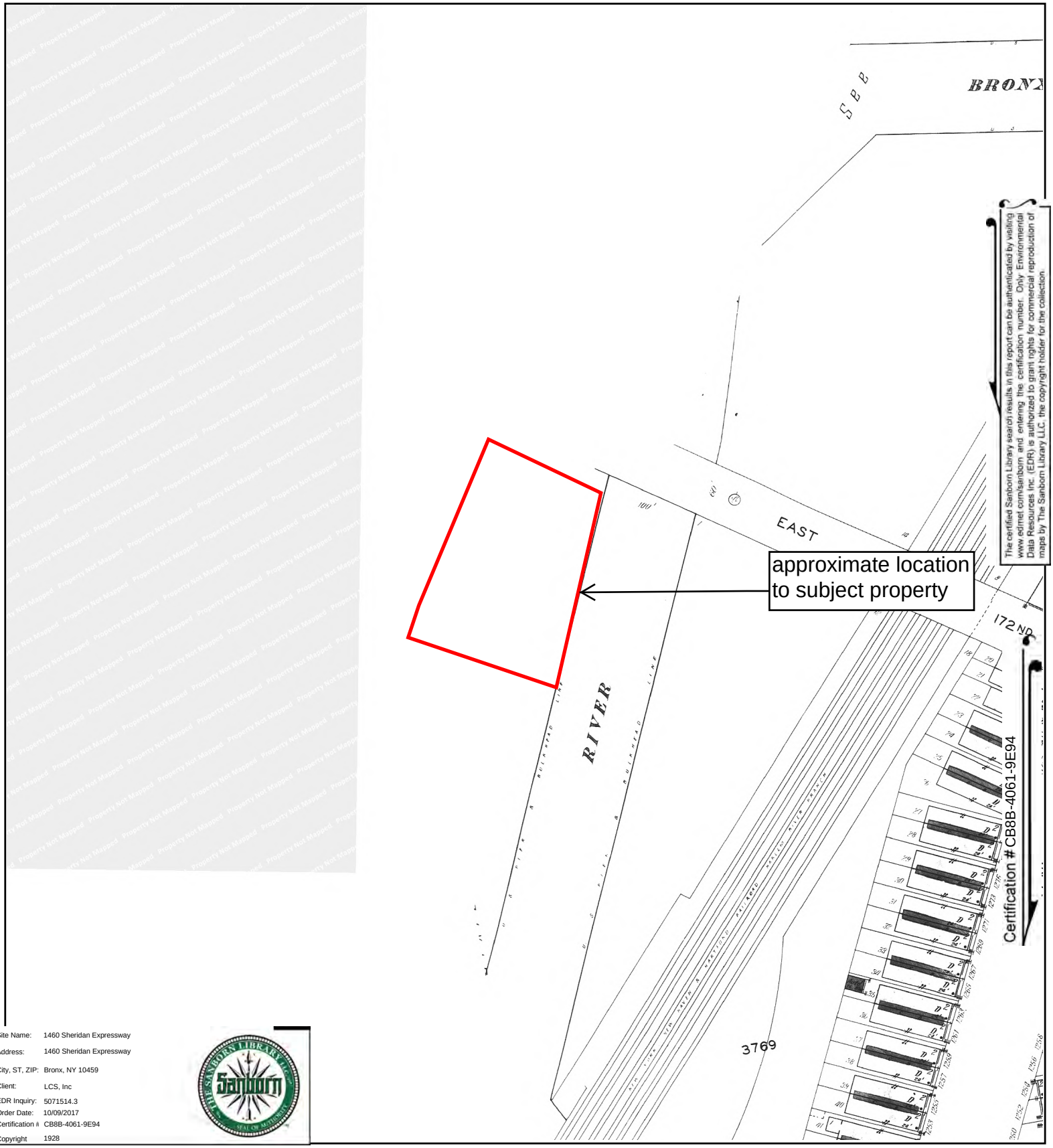
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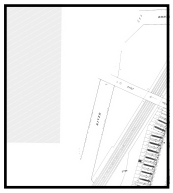
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Volume 16, Sheet 12
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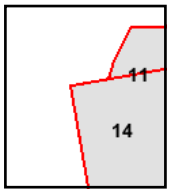
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Site Name: 1460 Sheridan Expressway
Address: 1460 Sheridan Expressway
City, ST, ZIP: Bronx, NY 10459
Client: LCS, Inc
EDR Inquiry: 5071514.3
Order Date: 10/09/2017
Certification #: CB8B-4061-9E94
Copyright: 1928

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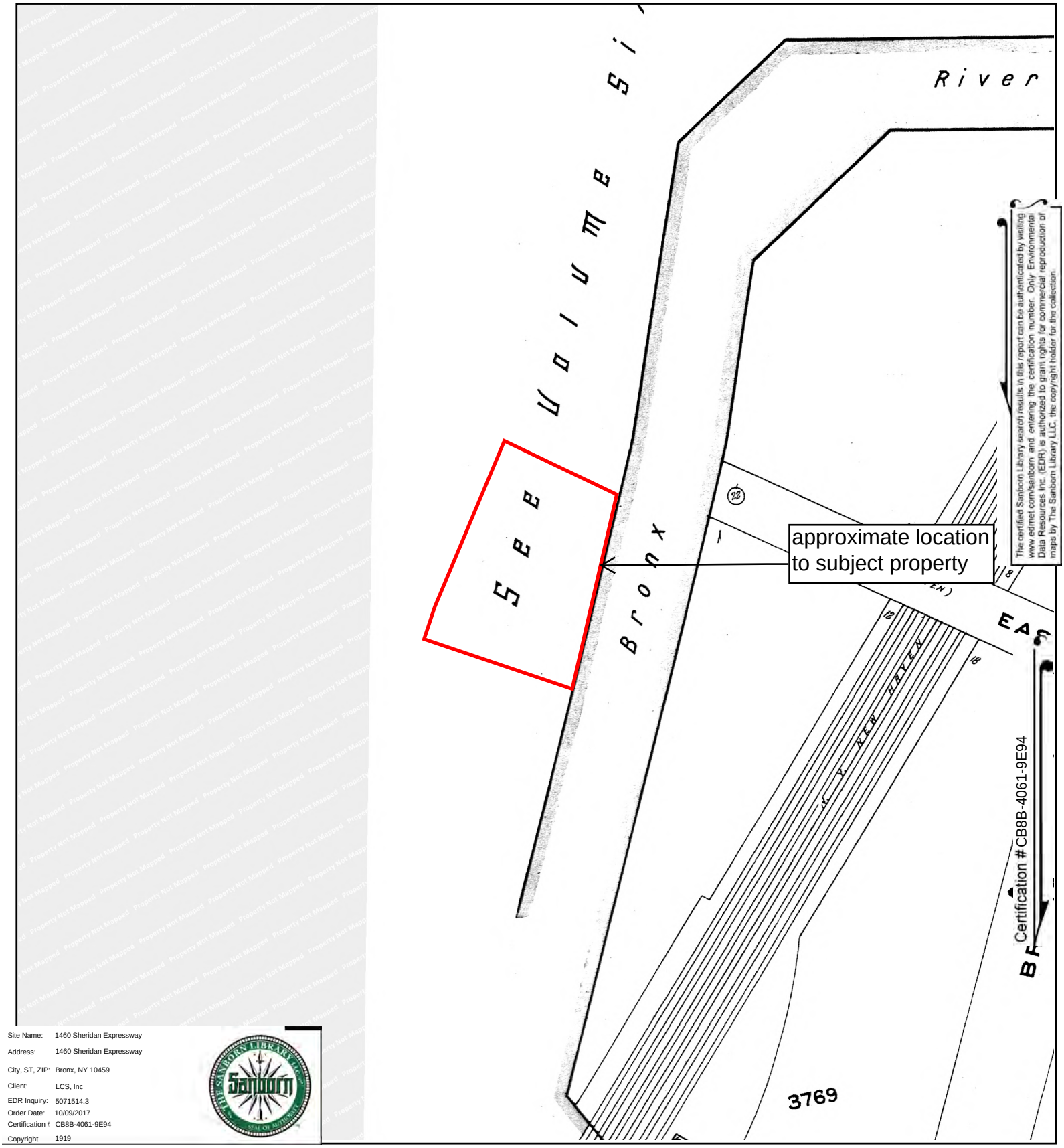




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0 Feet 150 300 600

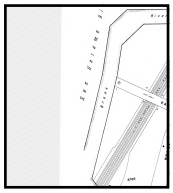
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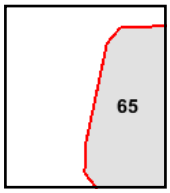


Site Name: 1460 Sheridan Expressway
Address: 1460 Sheridan Expressway
City, ST, ZIP: Bronx, NY 10459
Client: LCS, Inc
EDR Inquiry: 5071514.3
Order Date: 10/09/2017
Certification #: CB8B-4061-9E94
Copyright: 1919

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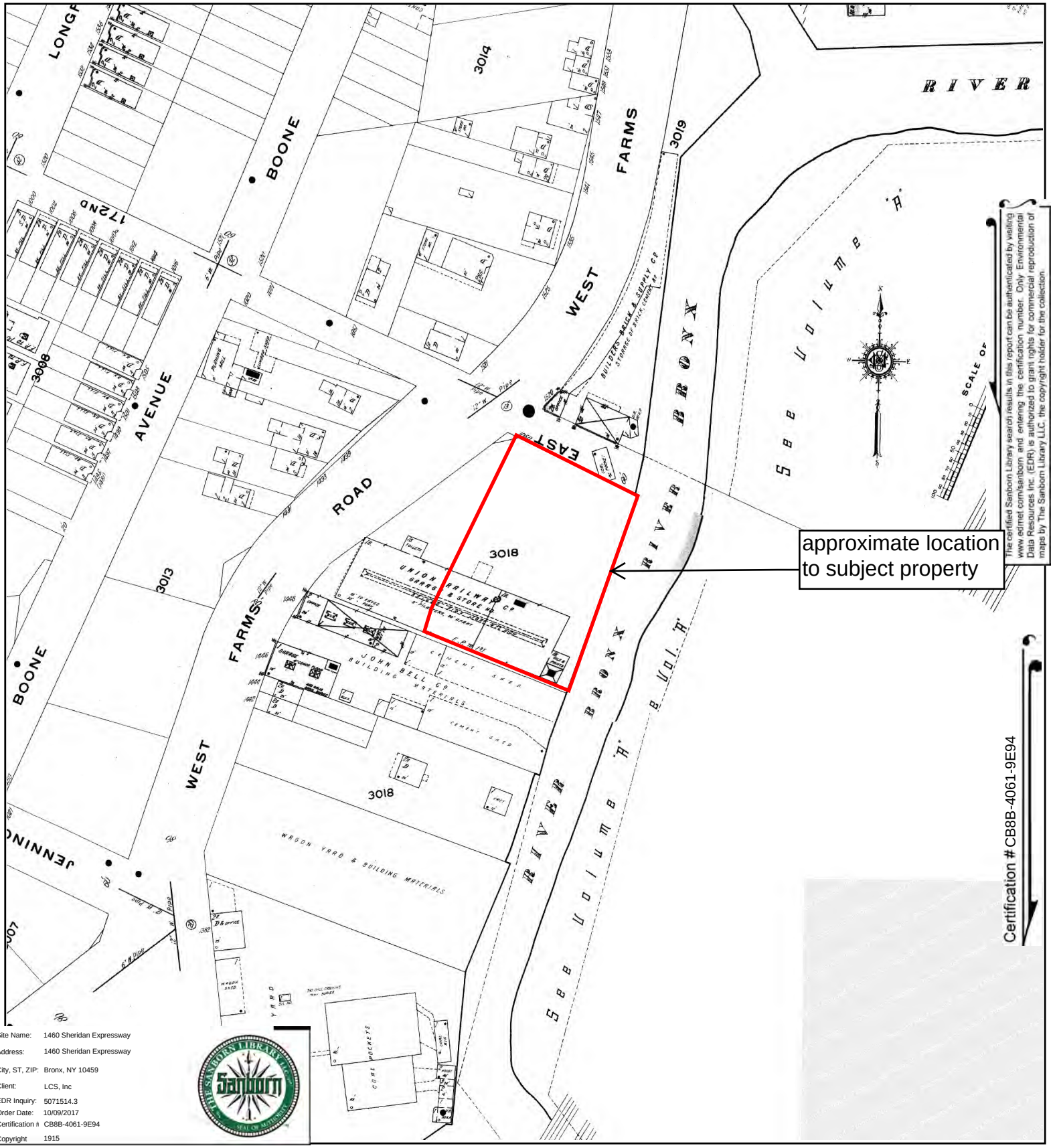
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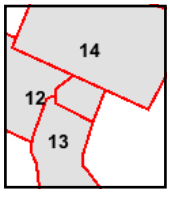


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Address:	1460 Sheridan Expressway
City, ST, ZIP:	Bronx, NY 10459
Client:	LCS, Inc
EDR Inquiry:	5071514.3
Order Date:	10/09/2017
Certification #:	CB8B-4061-9E94
Copyright	1915

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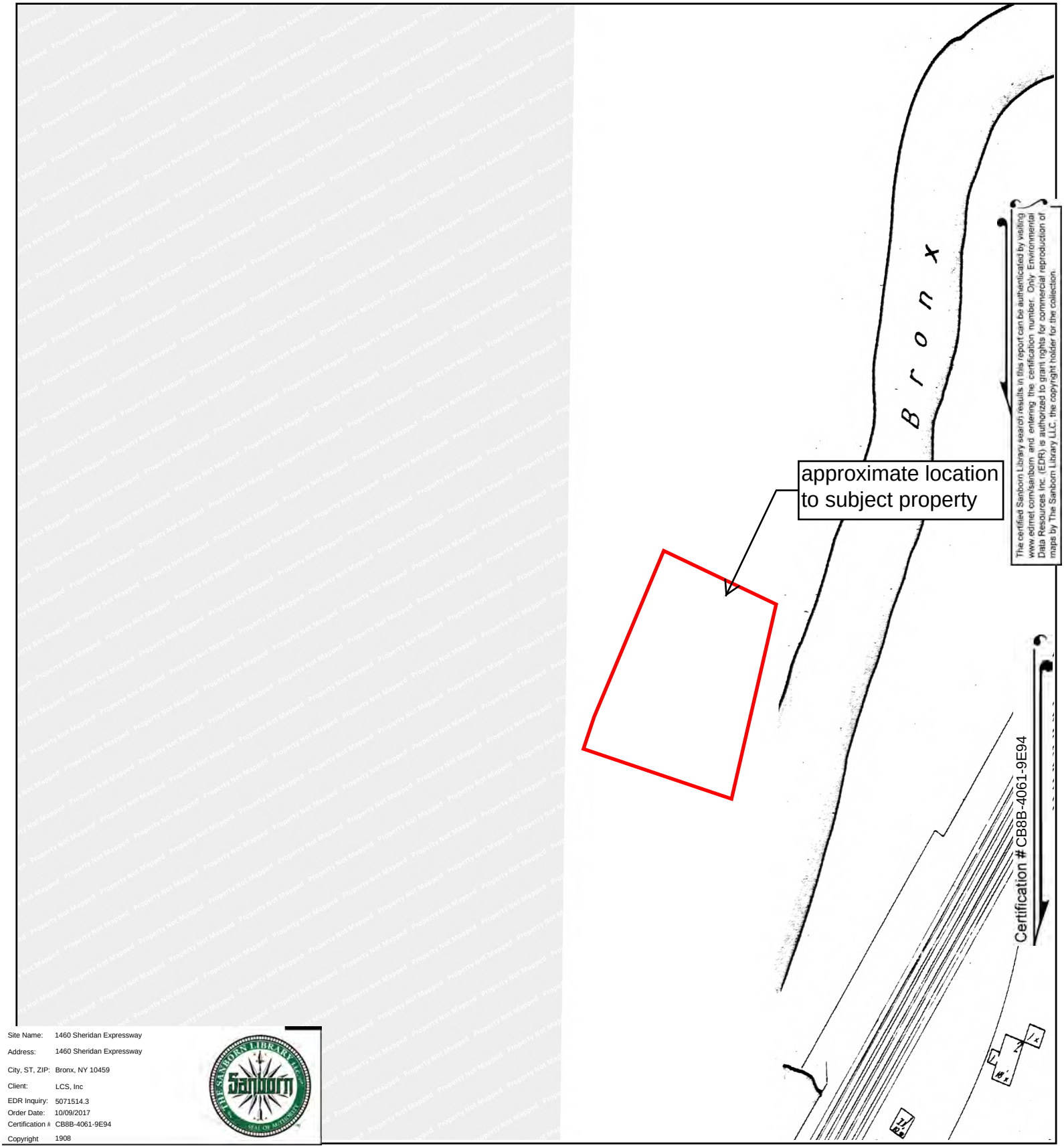




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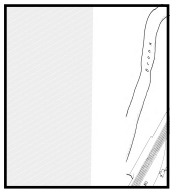
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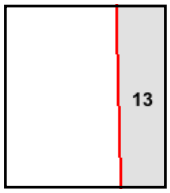
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Site Name: 1460 Sheridan Expressway
Address: 1460 Sheridan Expressway
City, ST, ZIP: Bronx, NY 10459
Client: LCS, Inc
EDR Inquiry: 5071514.3
Order Date: 10/09/2017
Certification #: CB8B-4061-9E94
Copyright: 1908

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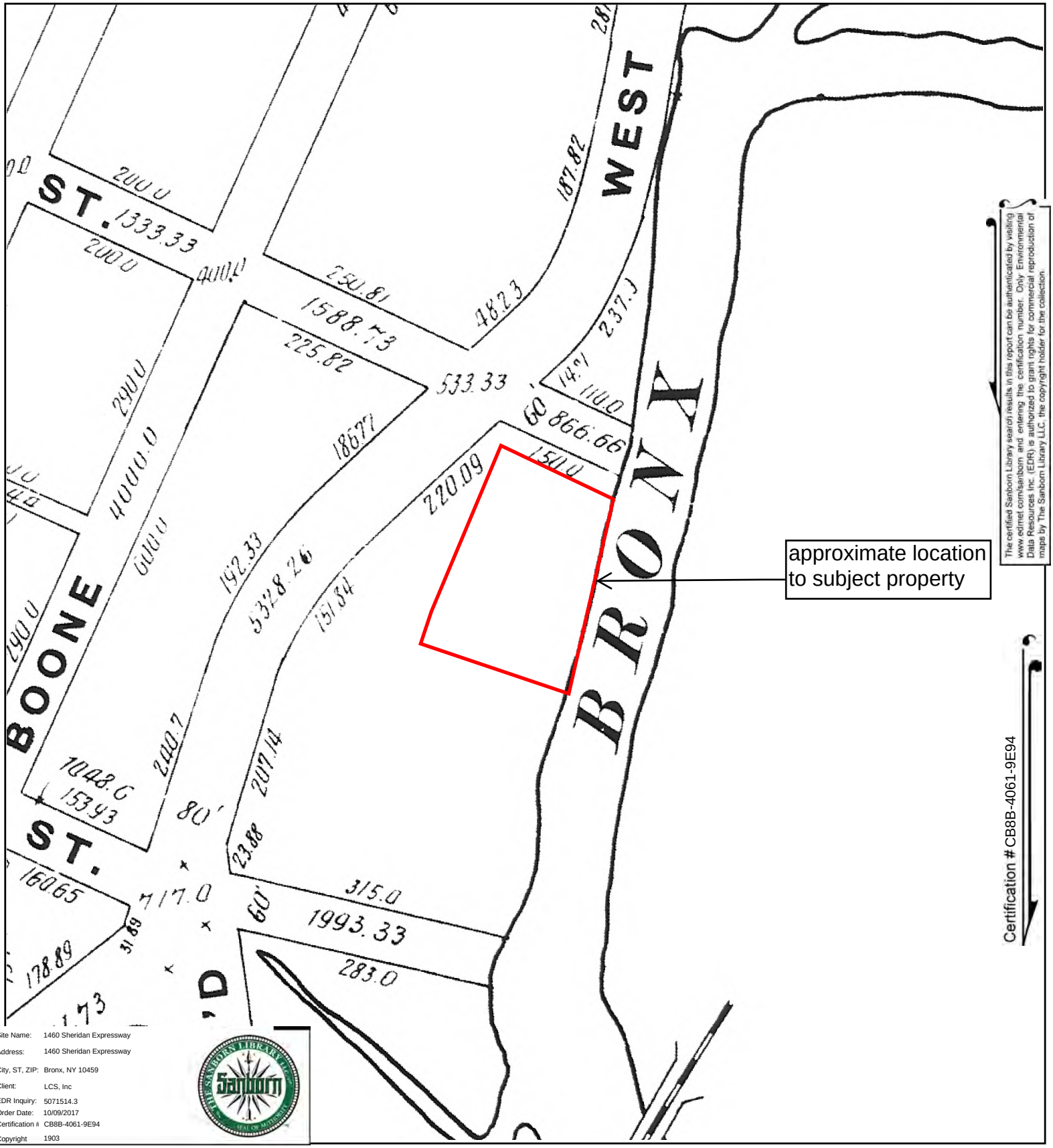




Volume A, Sheet 13

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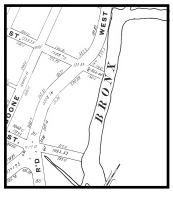
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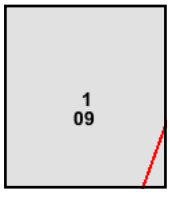


Site Name: 1460 Sheridan Expressway
Address: 1460 Sheridan Expressway
City, ST, ZIP: Bronx, NY 10459
Client: LCS, Inc
EDR Inquiry: 5071514.3
Order Date: 10/09/2017
Certification #: CB8B-4061-9E94
Copyright: 1903

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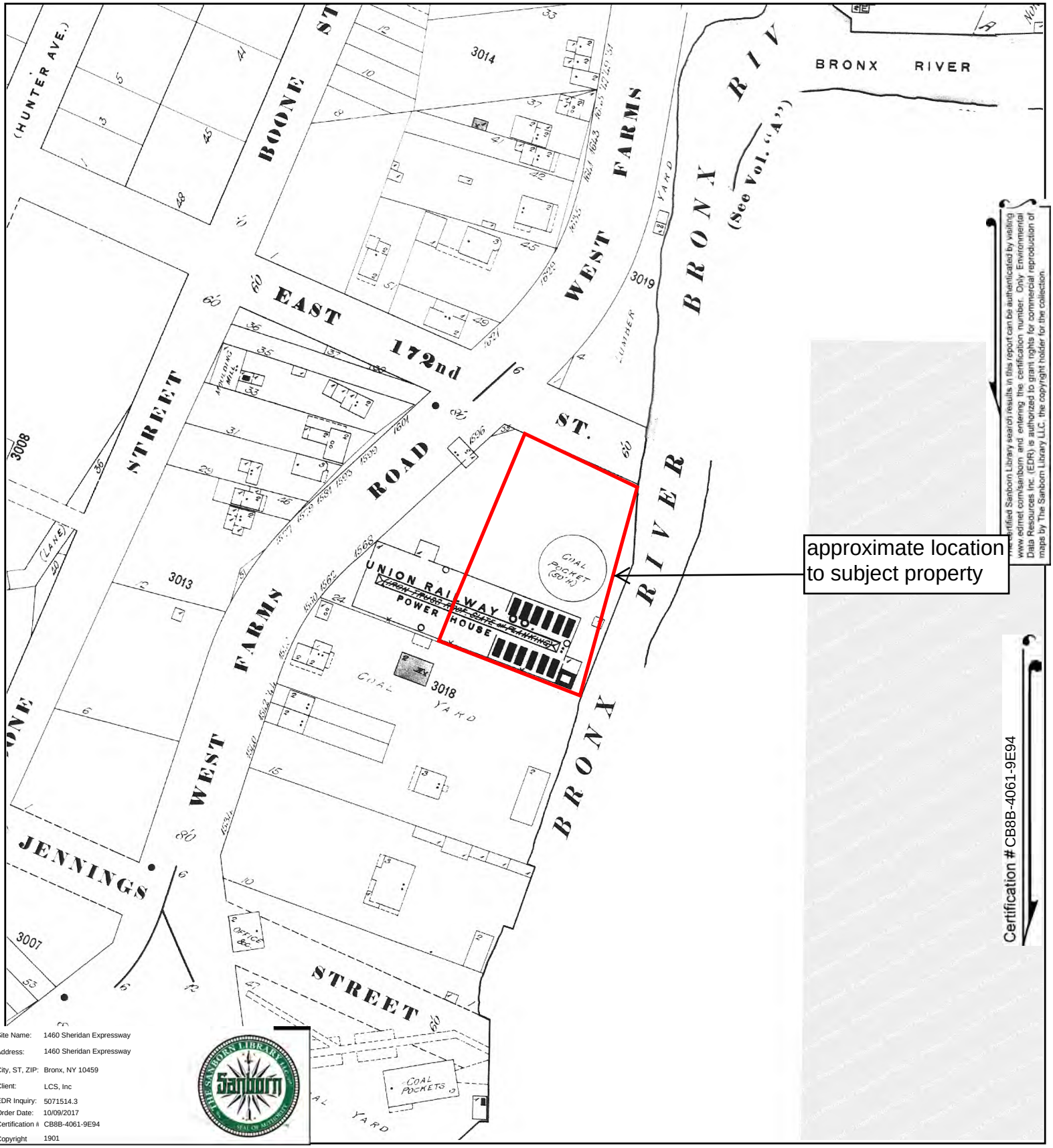
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Volume Atlas Maps, Sheet 09
Volume Atlas Maps, Sheet 1

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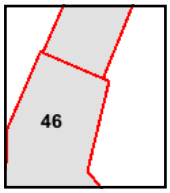
Site Name: 1460 Sheridan Expressway
Address: 1460 Sheridan Expressway
City, ST, ZIP: Bronx, NY 10459
Client: LCS, Inc
EDR Inquiry: 5071514.3
Order Date: 10/09/2017
Certification #: CB8B-4061-9E94
Copyright: 1901

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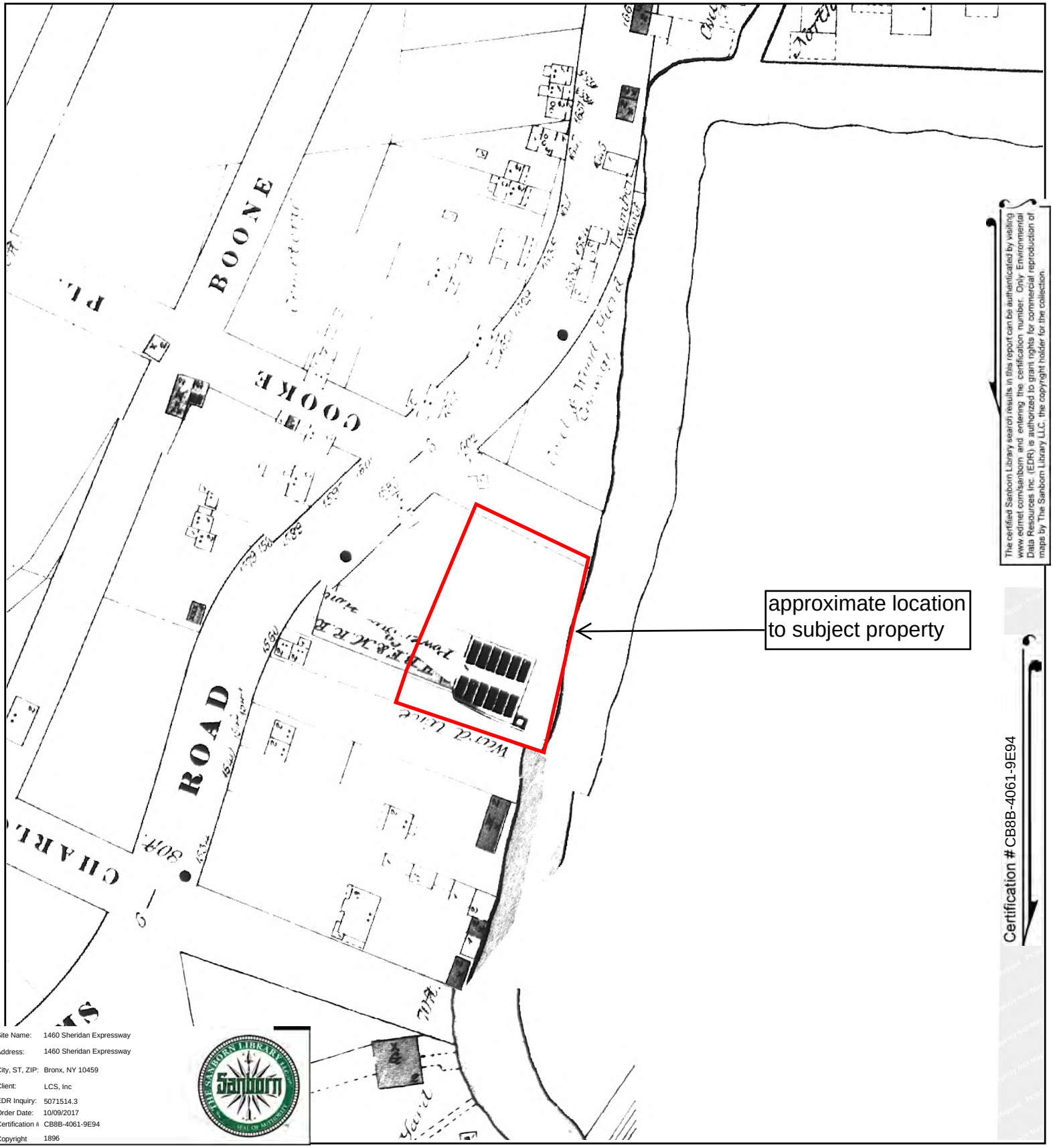
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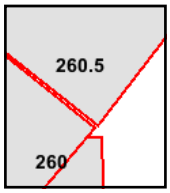
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Certification # CB8B-4061-9E94

Site Name:	1460 Sheridan Expressway
Address:	1460 Sheridan Expressway
City, ST, ZIP:	Bronx, NY 10459
Client:	LCS, Inc
EDR Inquiry:	5071514.3
Order Date:	10/09/2017
Certification #	CB8B-4061-9E94
Copyright	1896

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Volume 12, Sheet 260.5
Volume 12, Sheet 260

0 Feet 150 300 600

N

1460 Sheridan Expressway
1460 Sheridan Expressway
Bronx, NY 10459

Inquiry Number: 5071514.5
October 10, 2017

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1927 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 300 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
2010	EDR Digital Archive	-	X	X	-
2005	Hill-Donnelly Information Services	X	X	X	-
2000	Cole Information Services	X	X	X	-
1993	New York Telephone	X	X	X	-
1983	New York Telephone	X	X	X	-
1976	New York Telephone Company	-	X	X	-
1971	New York Telephone	X	X	X	-
1965	New York Telephone Company	-	-	-	-
1961	New York Telephone	-	-	-	-
1956	New York Telephone	-	X	X	-
1949	New York Telephone	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1940	New York Telephone	-	X	X	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	-	X	X	-
1927	New York Telephone	-	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1460 Sheridan Expressway
Bronx, NY 10459

FINDINGS DETAIL

Target Property research detail.

Sheridan

1460 Sheridan

Year	*Uses*	*Source*
2005	Hunts Points Auto Wreckers Inc	Hill-Donnelly Information Services
2000	BELCO STEEL CORP	Cole Information Services
1993	BEICO STEEL CORP	New York Telephone
1983	BELCO STEEL CORP	New York Telephone
1971	KILLINGSWORTH ROY	New York Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

EDGEWATER RD

1471 EDGEWATER RD

Year	Uses	Source
1940	Fox Square Laundry Co Inc	New York Telephone
1927	Fox Square Laundry Co Inc	New York Telephone

1476 EDGEWATER RD

Year	Uses	Source
1940	Simon Benj pltry	New York Telephone
	Simons Chicken Mkt	New York Telephone
1927	W & B Simon Inc pltry	New York Telephone

1479 EDGEWATER RD

Year	Uses	Source
1940	Edgewater Garage	New York Telephone

1487 EDGEWATER RD

Year	Uses	Source
1940	Guerriero Frank	New York Telephone
1931	Urso Geatano	Manhattan and Bronx Directory Publishing Company Residential Directory
	Urso Frank	Manhattan and Bronx Directory Publishing Company Residential Directory
	Nunziato Vincent	Manhattan and Bronx Directory Publishing Company Residential Directory
	Nunziato Rose	Manhattan and Bronx Directory Publishing Company Residential Directory
	Ursa John	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Urso T r	New York Telephone

1489 EDGEWATER RD

Year	Uses	Source
1940	Sardone Angelina	New York Telephone
1927	Goldstein Robt M r	New York Telephone

FINDINGS

1491 EDGEWATER RD

Year	Uses	Source
1931	Roth Chas	Manhattan and Bronx Directory Publishing Company Residential Directory
	Louis Martha C tchr P S	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Henrich Jos r	New York Telephone
	Lonis H A r	New York Telephone

1493 EDGEWATER RD

Year	Uses	Source
1940	Galitzka Geo I rl est W Burnsd Av	New York Telephone
	Galioto Rose Mrs	New York Telephone

1495 EDGEWATER RD

Year	Uses	Source
1931	Deresmo Dominick	Manhattan and Bronx Directory Publishing Company Residential Directory
	Deresmo Dominick Jr	Manhattan and Bronx Directory Publishing Company Residential Directory

1497 EDGEWATER RD

Year	Uses	Source
1927	Graham Mary Mrs r	New York Telephone

1499 EDGEWATER RD

Year	Uses	Source
1931	Tiechner Saml	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Tackler Wm r	New York Telephone

Sheridan Expy

1476 Sheridan Expy

Year	Uses	Source
2014	T&L AUTO ELECTRIC INC	EDR Digital Archive
	1476 AAA AUTOMOBILE INC	EDR Digital Archive
	ONYX AUTO SALES INC	EDR Digital Archive
	LEMA AND SONS CORPORATION	EDR Digital Archive
2010	T&L AUTO ELECTRIC INC	EDR Digital Archive
	1476 AAA AUTOMOBILE INC	EDR Digital Archive
	GQ AUTOMOBILE REPAIR	EDR Digital Archive
	LEMA AND SONS CORPORATION	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	ONYX AUTO SALES INC	EDR Digital Archive
	GEYCO PLUMBING & HEATING INC	EDR Digital Archive
	HARROD CONSTRUCION CORP	EDR Digital Archive

SHERIDAN EXPY

1476 SHERIDAN EXPY

Year	Uses	Source
2005	Felix Transmissions	Hill-Donnelly Information Services
	AAA Auto Inc	Hill-Donnelly Information Services
	Guzman Pablo	Hill-Donnelly Information Services
	Lazala Yoni yv	Hill-Donnelly Information Services
	Ramon Auto Body is	Hill-Donnelly Information Services
2000	WSTCHSTR AT CLLSN	Cole Information Services
	SM AUTO SALES	Cole Information Services
	CALEBS AUTO REPAIR	Cole Information Services
1993	WESTCHESTER AUTO COLLISION	New York Telephone
	SHERIDAN EXPRESS AUTO REPAIR	New York Telephone

Sheridan Expy

1480 Sheridan Expy

Year	Uses	Source
2014	LKQ CORPORATION	EDR Digital Archive
2010	LKQ CORPORATION	EDR Digital Archive

SHERIDAN EXPY

1480 SHERIDAN EXPY

Year	Uses	Source
2005	LKQ Hunts Point Auto Parts	Hill-Donnelly Information Services
2000	HUNTS PT AT WRCKRE	Cole Information Services
	HUNTS PT AUTO PRTS	Cole Information Services
1993	HUNTS POINT AUTO PARTS	New York Telephone
	HUNTS POINT AUTO WRECKERS INC	New York Telephone
1983	HUNTS POINT AUTO WRECKERS INC	New York Telephone

FINDINGS

W FARMS RD

1468 W FARMS RD

Year	Uses	Source
1940	Residence	New York Telephone

1471 W FARMS RD

Year	Uses	Source
2005	J R & H Auto Glass	Hill-Donnelly Information Services

1481 W FARMS RD

Year	Uses	Source
1993	ROMANO LOUIS	New York Telephone
	ROMANO Louis	New York Telephone
1983	ROMANO LOUIS	New York Telephone
1976	ROMANO LOUIS	New York Telephone Company
1971	ROMANO LOUOS	New York Telephone
1940	Eisenbarth M E Shedd Mrs	New York Telephone
1931	Eisenbarth Maria	Manhattan and Bronx Directory Publishing Company Residential Directory
	Barnet Charlotte	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Eisenbarth M E r	New York Telephone

1482 W FARMS RD

Year	Uses	Source
1931	Murray May	Manhattan and Bronx Directory Publishing Company Residential Directory

1491 W FARMS RD

Year	Uses	Source
1931	Anderson John	Manhattan and Bronx Directory Publishing Company Residential Directory
	Jones Matilda	Manhattan and Bronx Directory Publishing Company Residential Directory
	Jones Walter H	Manhattan and Bronx Directory Publishing Company Residential Directory

1493 W FARMS RD

Year	Uses	Source
2005	Bogle Leroy v	Hill-Donnelly Information Services
	Quality Steel Contracting Inc	Hill-Donnelly Information Services
2000	APARTMENTS	Cole Information Services

FINDINGS

Year	Uses	Source
2000	PH HILDA I RIOS	Cole Information Services
1983	LOPEZ JOSE A	New York Telephone
	MEDINA DIONISIO	New York Telephone
	RIVERA ISABEL	New York Telephone
1956	TORRICELLI JOS	New York Telephone
1931	Malcke Theo	Manhattan and Bronx Directory Publishing Company Residential Directory

1499 W FARMS RD

Year	Uses	Source
1931	OHaire Mary	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Haire Hugh r	New York Telephone

1501 W FARMS RD

Year	Uses	Source
1993	SUPERIOR METAL STORE FRONTS INC	New York Telephone
	SUPERIOR METAL STORE FRONTS CORP	New York Telephone
1983	P F H SOLAR ENERGY CO INC	New York Telephone
	WEST FARMS IRON WKS INC	New York Telephone
1971	WEST FARMS IRON WKS INC	New York Telephone

1520 W FARMS RD

Year	Uses	Source
1940	Clason Auto Wrecking Co	New York Telephone
1927	Bronx White Brick Co Inc	New York Telephone
	Lavelle Geo A pres	New York Telephone
	White Brick Co	New York Telephone

1521 W FARMS RD

Year	Uses	Source
1931	Criscuols Ferninado	Manhattan and Bronx Directory Publishing Company Residential Directory

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
1460 Sheridan Expressway	2014, 2010, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1468 W FARMS RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
1471 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931
1471 W FARMS RD	2014, 2010, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1476 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931
1476 SHERIDAN EXPY	2014, 2010, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1476 Sheridan Expy	2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1479 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
1480 SHERIDAN EXPY	2014, 2010, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1480 Sheridan Expy	2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1481 W FARMS RD	2014, 2010, 2005, 2000, 1965, 1961, 1956, 1949
1482 W FARMS RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
1487 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949
1489 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931
1491 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940
1491 W FARMS RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
1493 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
1493 W FARMS RD	2014, 2010, 1993, 1976, 1971, 1965, 1961, 1949, 1940, 1927
1495 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
1497 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
1499 EDGEWATER RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940

FINDINGS

Address Researched	Address Not Identified in Research Source
1499 W FARMS RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940
1501 W FARMS RD	2014, 2010, 2005, 2000, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1520 W FARMS RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931
1521 W FARMS RD	2014, 2010, 2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927

10.10 HYDROLOGIC/HYDROGEOLOGIC INFORMATION

LCS, INC.
QUAD/WETLANDS/SOILS/GEOLOGY

PROJECT #: 17N7498.39
SITE ADDRESS: 1460 Sheridan Expressway, Bronx, NY 10459
OFFICE REVIEWED AT:
DATE REVIEWED: 10-5-17

USGS QUAD: Central Park ELEV.: ~50 DATE: 1995
Anticipated groundwater flow: east
Nearest water body: Dist.: .1 Mile Dir.: east

NYSDEC: www.dec.ny.gov/imsmaps Bronx River DF N/A DATE: N/A
(indicate if none within 2 miles)
NEAREAST WETLAND: MI: NSEW CLASS

USFWS: www.fws.gov/wetlands/Data/Mapper.html DATE: N/A
(indicate if none within 2 miles)
NEAREST WETLAND: MI: NSEW CLASS

GEOLOGY: SHEET: http://www.nysm.nysed.gov/gis/ DATE: N/A
CLASS: middle ordovician
SUBCLASS: manhattan formation, undivided

SURFICIAL GEOLOGY: SHEET: http://www.nysm.nysed.gov/gis/ DATE: N/A
CLASS: till

SOILS: SOIL SURVEY (CO.): http://websoilsurvey.nrcs.usda.gov SHEET #: N/A DATE: N/A
CLASS: HYDRIC
CLASS: HYDRIC
CLASS: HYDRIC
CLASS: HYDRIC
CLASS: HYDRIC
CLASS: HYDRIC

RADON: COUNTY NAME: New York (Bronx) VALUE: 1.59
TOWN NAME: New York (NYC) VALUE: 2.08

DRAINAGE BASIN: Major: Bronx River Minor: East River

LEAD IN DRINKING WATER: Water authority name: NOT NEEDED - template
90th percentile:
Year of testing:

Rev. Date 6-2014

10.11 USER PROVIDED INFORMATION

Sterling National Bank is currently considering a lending relationship and associated mortgage for the subject property. In this regard, LCS was informed that the Bank maintains no specialized knowledge of environmental concerns at the subject property. As such, Sterling National Bank could not provide useful answers to the ASTM 1527-13 Phase I Environmental Site Assessment User Questionnaire. [As required under 40 CFR 312, only those seeking liability protection under CERCLA must provide the environmental professional certain information and documentation.]

LCS, INC.
PREVIOUS OWNER INFORMATION
(FOR USE WHEN CONDUCTING AN ASTM 1527-05 PHASE I)

PROJECT#: 17N7498.39

PREVIOUS OWNERS IDENTIFIED (circle): **NO** **YES**

Previous Owner/Occupant/Operator	Source of Information (circle)
	Municipal records / site contact / previous study / other

****

ACCORDING TO THE STANDARD, WE NEED TO ATTEMPT TO CONTACT PREVIOUS OWNERS, DOCUMENT ATTEMPTS BELOW:

DATE OF INTERVIEW: _____PERSON INTERVIEWED:_____

CIRCLE ONE: past owner past occupant past operator

Historical uses of the subject property (including **dates**): _____

_____

Environmental concerns identified: _____

_____

_____

9/8/2017

10.12 LIMITATIONS

This **ENVIRONMENTAL SITE ASSESSMENT PHASE I, IN ACCORDANCE WITH ASTM E1527-13,** is based on the SCOPE OF SERVICES contained within this report. This report is not to be considered as an environmental audit of the subject property or a complete environmental investigation of the subject property.

We have prepared this report for the exclusive use of our client. LCS' liability is limited to use by this client for a period of six months. Use by any other party is strictly prohibited except by authorization in writing from this consultant. LCS has no liability for others' use of this report.

The purpose of this assessment is not to proclaim a property is devoid of environmental impact but rather to identify recognized environmental conditions. This is defined by as "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions."

While performance of this Phase I Environmental Site Assessment of the subject property was not intended to constitute all appropriate inquiry for purposes of the CERCLA innocent landowner defense by identifying RECs in connection with the subject property, this assessment (as defined by ASTM) is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a subject property. This assessment does not include any testing or sampling of materials.

This **ENVIRONMENTAL SITE ASSESSMENT PHASE I, IN ACCORDANCE WITH ASTM E1527-13,** makes no warranties nor implies any liability regarding:

1) Site specific practices and/or disposal methods of the past or future owners.

2) The presence of lead containing materials, asbestos, radon and/or environmental impact of such substances on the subject property or buildings and structures on the subject property, other than noted here in.

3) Adjacent property owners, their environmental practices and/or impact of such properties and practices on the subject property other than observed from the subject property.

4) Unreported spills.

5) Practices, waste disposal, environmental concerns and/or modifications to waste site indexes after the date on this report.

6) Site groundwater or soil conditions.

7) Accuracy or completeness of information supplied to LCS by others.

8) Environmental conditions in areas that were not accessible or not otherwise shown to LCS (locked rooms, behind walls or ceilings, etc.).

9) Accuracy of previous studies provided to LCS.

10.12 LIMITATIONS (continued)

This report is also subject to any and all limitations defined within ASTM E1527-13. This includes, but is not limited to, the limitation that this report is intended to identify environmental conditions at a specific time and the report is only valid for a period of six months from the date of issuance. According to ASTM, asphalt pavement is considered a limitation.

The principles defined within ASTM E1527-13, and followed within this study, include the following.

- This practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a property.
- All appropriate inquiry does not mean an exhaustive assessment of a clean property. One of the purposes of this practice is to identify a balance between limiting costs/time and the reduction of uncertainty about unknown conditions.
- The level of inquiry is variable and depends on the type of property, risk level of the user and information developed in the course of the inquiry.
- Subsequent environmental assessments should not be used as standards to evaluate the appropriateness of prior inquiries based on hindsight, new information or new techniques.

10.13 USER RESPONSIBILITIES

The following information is the responsibility of the user and not of the environmental professional. This information may be provided by the user to the environmental professional for use in the final opinion of the all appropriate inquiry. If the information is not provided by the user, the environmental professional's ability to render such an opinion may be hindered and identified as a data gap.

- Searches for environmental cleanup liens and activity and use limitations against the subject property that are filed or recorded under any federal, tribal, state or local law, as required by 40 CFR section 312.25 and 312.26.
- Assessments of any specialized knowledge or experience on the part of the landowner, as required by 40 CFR section 312.28.
- An assessment of the relationship of the purchase price to the fair market value of the subject property, if the property was not contaminated, as required by 40 CFR 312.29.
- An assessment of commonly known or reasonably ascertainable information about the subject property, as required by 40 CFR section 312.30.
- The degree of obviousness of the presence or likely presence of releases or threatened releases at the property, and the ability to detect the releases by appropriate investigations, as required by 40 CFR section 312.31.

In addition, there are other requirements within 40 CFR 312 of the user post-purchase regarding maintaining use limitations, providing access for studies from off-site sources and other matters. The user should review these requirements, which depend on the specific liability protection that may apply to the use.

10.14 USER PROTECTIONS

Persons claiming the liability protections under CERCLA must meet the statutory requirements of one of the following landowner liability protections. [It should be noted that the user must also satisfy certain continuing obligations outside the scope of this Phase I Environmental Assessment, as required by CERCLA].

- The innocent landowner defense pursuant to CERCLA Sections 9601(35) and 9607(b)(3).
- The bona fide prospective purchaser liability protection pursuant to CERCLA Sections 101(40) and 9607(r).
- The contiguous property owner liability protection pursuant to CERCLA Section 9607(q).

11.0 PERSONNEL QUALIFICATIONS

Name: **Thomas Duffy**
Title: Chief Executive Officer
Years with firm: Nineteen
Education: Bachelors of Arts, St. Bonaventure University, Olean, New York

Certifications: Lead Inspector
New York State Department of Labor Asbestos Project Monitor, Inspector and Air Sampling Technician
Steel Structures Painting Council (SSPC) QP-1 Certified for removal of lead paint on complex steel structures
ASTM Conference on Environmental Site Assessments for Property Transfer

Experience: Mr. Duffy is currently the Chief Executive Officer of operations and is responsible for the oversight of all systems and operations, including research, development and implementation of such systems company-wide, as well as marketing and client retention in the Albany/Hudson Valley/NYC regions. Mr. Duffy's previous positions within LCS include Buffalo General Manager, Syracuse General Manager and Regional Manager for Albany, Hudson Valley and New York City.

Mr. Duffy is a graduate of St. Bonaventure University with a Bachelors of Arts in Communications. Over the past eight years, Mr. Duffy has been involved in all aspects of environmental field projects throughout New York State.

He has provided services to clients including the closure of gasoline stations, closure of past industrial dumping grounds, Sewer System Evaluation Surveys, demolition and remediation projects and soil and water sampling.

While with LCS, Mr. Duffy has conducted nearly 800 Phase I and Transaction Screen Environmental Site Assessments, and has participated as a team leader on asbestos inspections and lead-based paint surveys. In addition, he is knowledgeable in environmental laws.

Name: **Benjamin F. Bremer**
Title: President
Years with Firm: Nineteen
Education: Bachelors of Science degree in Environmental Studies, State University of New York at Buffalo, Buffalo, New York

Certifications: Environmental Professional
ASTM Conference on Environmental Site Assessments for Property Transfer
HAZWOPER
Risk Management Association Board Member

Experience: Mr. Bremer is currently President of LCS. As President, duties include the maintenance and development of both new and existing clients nationwide, as well as oversight of the overall operations of LCS. Mr. Bremer is also highly involved in developing new products and programs.

While with LCS, Mr. Bremer has conducted or been involved in thousands of Environmental Site Assessments, valuation and construction projects. This includes site reconnaissance, data review and report preparation. Mr. Bremer has completed field studies nationwide. The field investigations Mr. Bremer has been involved in include small gasoline stations to large scale industrial facilities. Mr. Bremer specializes in finding creative and practical solutions when risk is identified.

While an Environmental Scientist with LCS, Mr. Bremer's has also been involved in hundreds of intrusive investigations and remediation projects. Such investigations have included gasoline stations, dry cleaning facilities, motor repair facilities and industrial facilities. Mr. Bremer's hands-on experience has included soil sampling, groundwater monitoring well preparation and sampling, environmental drilling, underground storage tank removals, remediation projects, project management, data review and report preparation.

While studying at SUNY at Buffalo, Mr. Bremer interned at Wastestream Technology, Inc. where he was involved in testing soil and water extractions for potential pollutants. His experience in the lab primarily dealt with metal extractions, while also being introduced to volatile organic compounds, semi-volatile organic compounds, pesticides and herbicides analysis.

Name: **Margaret Mary Battin**
Title: Chief Operating Officer
Years with Firm: Fifteen
Education: Bachelor of Science Degree in Biology, Cornell University, Ithaca, New York

Certifications:
Environmental Professional
Instructor, Environmental Health and Safety Issues, BOMI International
ASTM Conference on Environmental Site Assessments for Property Transfer
Underground Storage Tank Removal Technician
HAZWOPER

Experience:

Ms. Battin is currently the Chief Operating Officer of LCS, Inc. Her current role involves overall business management, business development, supervision of Regional General Managers and Sr. Vice Presidents, and assessment of various environmental due diligence requirements and environmental risk for various financial institutions. Ms. Battin's previous positions within LCS include General Manager of the Mid- Atlantic Region and Senior Vice President of Operations.

Ms. Battin has over twenty-six years of experience in various aspects of the environmental field including environmental management, compliance, research and site investigation. Ms. Battin has acted as a liaison between property owners, and governmental and financial agencies. She was previously a partner and Vice President of an environmental consulting firm in the Chesapeake Bay Region.

Ms. Battin has conducted and reviewed over 7000 Phase I and Transaction Screen Environmental Site Assessments, environmental compliance and research projects, as well as conducted and managed numerous Phase II and Phase III projects including hydrogeologic investigations, storage tank management and underground storage tank (UST) removal and closure projects, Resource Conservation and Recovery Act (RCRA) monitoring, assessment and reporting, groundwater monitoring well installation and monitoring, landfill delineation projects, and site characterization and remedial design projects.

Name:	**Mary Beth Facklam**
Title:	Senior Vice President, Due Diligence Services Environmental Professional
Years with Firm:	Seventeen
Education:	Master's Degree in Science Education, State University of New York at Buffalo, Buffalo, New York Bachelor of Arts, Geology and Anthropology, University of Rochester, Rochester, New York
Affiliations:	American Society of Testing and Materials; National Association of Professional Women

Experience: Ms. Facklam is currently Senior Vice President of Environmental Due Diligence Services. She is responsible for the management, preparation and/or review of environmental reports prepared by LCS, as well as the completion of third-party report reviews for lenders. Ms. Facklam provides senior review services for environmental reports completed by others in order to verify whether such reports have addressed on-site concerns. Ms. Facklam has been involved in several hundred such reviews, ranging from undeveloped land and small commercial properties to large-scale industrial sites of varying complexity and levels of completed investigation/remedial work.

Ms. Facklam has over 25 years of experience in various aspects of the environmental field including environmental management, compliance, research and site investigations.

Prior to joining LCS, Ms. Facklam held a position with a local environmental consulting firm where she performed various duties as Geologist and Environmental Specialist, including coordination geotechnical drilling operations and performing environmental and geotechnical field work, physical laboratory soil testing, and report preparation.

While at LCS, Ms. Facklam has conducted and reviewed over 5,000 Environmental Site Assessments. In addition, she is knowledgeable in environmental laws and has a strong base of knowledge regarding environmental issues as well as the role of environmental concerns with financial institutions.

Name:	**David Crandall**
Title:	Vice President, Environmental and Due Diligence Services
Years with Firm:	Seven
Total years:	12
Years with Education:	Bachelor of Science, Environmental Studies, Concentration in Policy and Management, Cum Laude, State University of New York College of Environmental Science and Forestry, Syracuse, New York
Certifications:	ASTM Conference on Environmental Site Assessments for Property Transfer OSHA HAZWOPER 40-Hour Course/8-Hour Refresher OSHA 8-Hour HAZWOPER Supervisor Environmental Professional

Experience:

Mr. Crandall is currently Vice President, Environmental and Due Diligence Services at LCS. He is responsible for the review and issuance of Phase I, Transaction Screen, and EA Quick reports and Phase II Investigation, Remedial Action, and Brownfield/Voluntary Cleanup Program scoping, costing, performance, and reporting. As part of his role in the review of LCS reports, Mr. Crandall provides senior review services for previous studies and environmental reports completed by others in order to verify whether such previous reports have addressed on-site concerns. In addition, Mr. Crandall performs various functions in association with the review of environmental reports prepared by other environmental firms. This includes the evaluation of previous Phase I reports and subsurface investigation and remediation reports, with a focus on the applicability of such work in accordance with clients' needs. To date, Mr. Crandall has been involved in several hundred such reviews, ranging from undeveloped land and small commercial properties to large-scale industrial sites of varying complexity and levels of completed investigation and remediation work.

Mr. Crandall has over 12 years of experience in environmental consulting. During his time with LCS, he has been involved in thousands of EA Quicks, Transaction Screens, and Phase I Environmental Site Assessments. Mr. Crandall has also been involved in numerous Phase II Investigations and remedial projects including soil excavations, *in-situ* remediation activities, and UST and in-ground hydraulic lift closures.

In five-plus years with an international environmental consulting firm, Mr. Crandall was responsible for Remedial Investigations, Feasibility Studies, and Remedial Actions for Federal, State, and commercial clients. He was responsible for developing scopes of work and costing for projects, performing soil and groundwater sampling, groundwater monitoring well installations, soil vapor and vapor intrusion assessments, and for the preparation of summary reports along with developing recommendations for future work. Mr. Crandall was also responsible for performing contractor oversight during remedial actions and developing post remedial action Site Management Plans.

While studying at SUNY-ESF, Mr. Crandall focused on environmental law, policy, and sciences, developing a strong wealth of knowledge in the environmental field.

Name: **Heather J. Lamb**
Title: Senior Reviewer, Due Diligence Services
Years with Firm: Fifteen
Education: Bachelors of Science degree in Environmental Science, State University of New York at Fredonia, Fredonia, New York

Certifications: ASTM Conference on Environmental Site Assessments for Property Transfer

Experience: Currently, Ms. Lamb is an Environmental Professional and Senior Reviewer of Due Diligence Services for LCS. While at LCS, Ms. Lamb has been involved with over 15,000 Transaction Screen and Phase I Environmental Site Assessments. Her duties include performing site inspections, data collection, report preparation and review of final reports as well as supervision and management of report writers.

While attending SUNY Fredonia, Ms. Lamb was involved with research for the State of the Lake Report for Chautauqua Lake. Her research involved sampling and testing of rainwater for such atmospheric pollutants as nitrous oxides and total phosphorous load. Additionally, Ms. Lamb spent a summer in China researching the effects of biogenic silica on marine life in addition to researching the exchange of nutrients between sediment and water and the chemical method of wet alkaline extraction. Her research involved testing sediment from the Yellow and Bohai Seas and researching various methods of chemical analyses related to biogenic silica.

Name: **Julie A. Daly**
Title: Senior Vice President
Years with Firm: Sixteen
Education: Bachelors of Science degree in Environmental Science
University of Tampa, Tampa, Florida

Certifications: Environmental Professional
ASTM Conference on Environmental Site Assessments for Property Transfer
Fundamentals of Mold/Microbial Remediation and Assessment
RMD's Lead Paint Inspection
New York State Department of Labor Asbestos Inspector

Experience: Ms. Daly's responsibilities include the management, preparation and/or review of peer review memos prepared by LCS, as well as management of Phase I and abbreviated ESAs conducted for clients within the greater Tri-State and West regions.

Ms. Daly has over 19 years of experience in various aspects of the environmental field including environmental compliance, research and site investigation. Ms. Daly has conducted countless Environmental Site Assessments across the United States for commercial and industrial properties, including automotive repair centers, manufacturing facilities, shopping centers, office buildings and apartment complexes. This has included all aspects of data collection, data-review and report preparation. Her responsibilities have also included conducting asbestos surveys, conducting lead-based paint surveys, managing large property portfolios, training Environmental Professionals and assisting in Phase II investigations. In addition, Ms. Daly has completed construction-related services, including Construction Draw inspections.

While studying at the University of Tampa, Ms. Daly volunteered with the Florida Department of Environmental Protection, Domestic Waste Water Compliance and Enforcement Division. This involved conducting assessments to determine compliance with local, state and federal laws pertaining to operation and maintenance of waste water treatment plants, as well as collecting samples, analyzing data, and preparing reports to submit to various agencies.

Name: **Manny Nazario**
Title: Environmental Analyst
Years with Firm: One
Education: Bachelors of Arts in Earth Sciences, Kean University, Union, NJ (2008)

Certifications: 40-Hour HAZWOPER

Experience: Currently, Mr. Nazario is an Environmental Analyst serving the LCS Tri-State Region. Mr. Nazario performs environmental site assessments for EAQuick, Transaction Screens, Phase I and Phase II reports, construction draws, PCA and PIR's including site surveillance, data collection and data review.

While with LCS, Mr. Nazario has conducted over 150 Phase I Environmental Site Assessments and Phase II subsurface studies for municipal and private clients and financial institutions. Subsurface study experience includes soil and groundwater investigations, remedial work, geophysical surveys utilizing magnetometer and ground penetrating radar. This includes site inspections, data collection and analysis and interpretation and report preparation/writing.

Prior to joining LCS, Mr. Nazario held a position with a local environmental consulting firm where he performed various duties as an Environmental Scientist for Phase II projects over a three year span. Duties consisted of performing soil boring delineation and sampling, indoor air sampling and monitoring, ground water sampling, bailing, gauging and surveying and the oversight of monitoring well installations.

In addition, Mr. Nazario is also responsible for coordinating of field operations with clients and utility companies. Mr. Nazario is well versed in all aspects of fieldwork generally consisting of: sampling various media (groundwater, soil, surface water, air, etc.); logging soil borings; completing field paperwork and documenting activities on-site; directing subcontractors, interacting with client representatives and regulatory agencies; and, communicating with project managers and other project related personnel.

12.0 REFERENCES

EDR, The EDR-Radius Map Report, Inquiry #5071514.2s. Report dated October 9, 2017.

EDR, Certified Sanborn Map Report, Inquiry #5071514.3. Report dated October 9, 2017.

EDR, City Directory Abstract, Inquiry #5071514.5. Report dated October 10, 2017.

www.google.com/earth/

www.propertyshark.com

www.nyc.gov

www.oasisnyc.net

www.nrcs.usda.gov

http://www.health.state.ny.us/environmental/radiological/radon/towns.htm

http://www.nysm.nysed.gov/gis/

www.dec.ny.gov/

http://www.epa.gov/enviro/facts/qmr.html

13.0 ACRONYMS/ABBREVIATIONS

ACM	Asbestos-Containing Materials
AIRS	Aerometric Information Retrieval System
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
CBS	Chemical Bulk Storage
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CESQG	Conditionally Exempt Small Quantity Generator
CORRACTS	Corrective Action
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response and Notification System
FINDS	Facility Index System
FOIA	Freedom of Information Act
FOIL	Freedom of Information Law
FWM	Freshwater Wetlands Map
ICIS	Integrated Compliance Information System
LCS	Lender Consulting Services, Inc.
LQG	Large Quantity Generator
LTANK	Leaking Tank
LUST	Leaking Underground Storage Tank
MOSF	Major Oil Storage Facility
MSDS	Material Data Safety Sheets
mVOC	Microbial Volatile Organic Compound
N/A	Not Available, Not Applicable
NFRAP	No Further Remedial Action Planned
NPDES	National Pollution Discharge Elimination System
NPL	National Priorities List (“Superfund”)
NRCS	Natural Resource Conservation Service (by County)
NWI	National Wetlands Inventory
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PBS	Petroleum Bulk Storage
PCB	Polychlorinated Biphenyl
PCi/L	Pico Curies per Liter
PEC	Potential Environmental Concern
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
REC	Recognized Environmental Condition
SEMS	Superfund Enterprise Management System
SPDES	State Pollution Discharge Elimination System
SQG	Small Quantity Generator
TSDF	Treatment, Storage and Disposal Facility
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USFWS	United State Fish and Wildlife Service
USGS	United States Geological Survey
UST	Underground Storage Tanks
VCP	Voluntary Cleanup Program

Appendix K

Appendix K

Phase I ESA Report: 1480 Sheridan Expressway

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

PDJ SIMONE REALTY CO.
1480 SHERIDAN EXPRESSWAY
BRONX, NEW YORK 10459

TEAM ENVIRONMENTAL CONSULTANTS, INC.
30 INDUSTRIAL DRIVE
MIDDLETOWN, NEW YORK
(845) 692-8124

MAY 8, 2017

1.0 EXECUTIVE SUMMARY

Team Environmental Consultants, Inc. (TEAM), was authorized by Simone Development Co., LLC to conduct a Phase I Environmental Site Assessment (ESA) of a commercial property located at 1480 Sheridan Expressway Service Road in the Borough of Bronx, New York. TEAM's Phase I ESA was conducted in I conformance with ASTM Practice E 1527-13 (Standard Practice for Phase I ESA Process) guidelines. The objective of this effort was to identify significant environmental impairments and liabilities associated with the target property. The requested scope of work included the following main tasks: 1) Review of readily available historical and regulatory information; 2) Performance of Phase I ESA interviews and a walk-through property inspection; 3) Review of a federal and state environmental database report; and 4) Documentation of findings in a Phase I ESA report.

Based on review of available historical and regulatory information, performance of Phase I ESA interviews, and findings of the site walk-through inspection, TEAM has identified the following Recognized Environmental Conditions (RECs) and Historical Recognized Environmental Conditions (HRECs) associated with the subject property:

- Potentially significant residual soil/groundwater quality contamination issues associated with onsite fill materials and historic property use as a coal storage yard and for concrete slab manufacturing and vehicle dismantling operations.

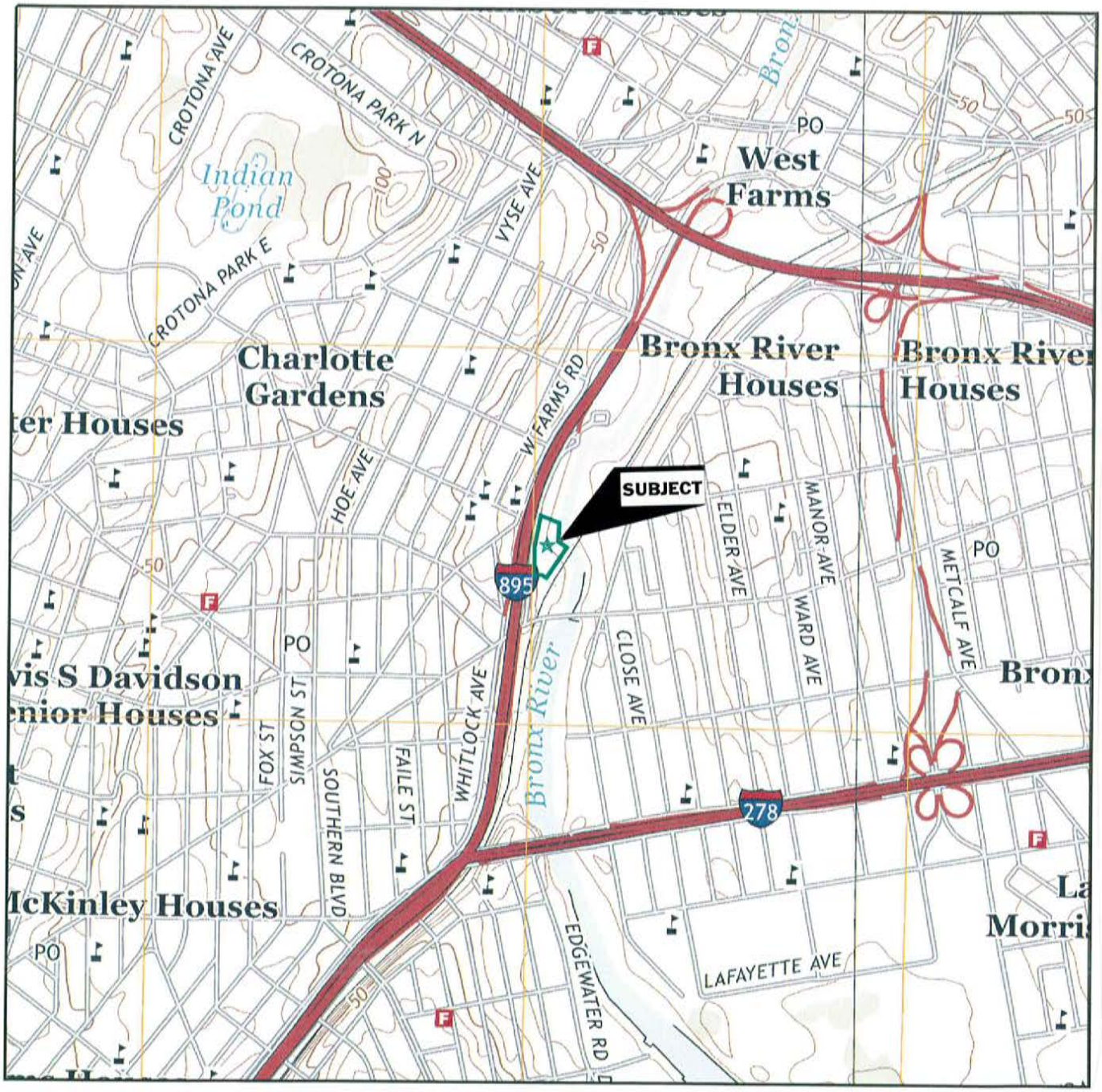
- Absence of available documentation associated with the issuance and closure of New York State Department of Environmental Conservation (NYSDEC) Spill No. 97-02732 which was issued on June 3, 1997 based on reported tightness test "failures" for three inactive underground petroleum (two gasoline and one diesel fuel) storage tanks (USTs).

- Absence of documentation associated with the locations and removal of the three gasoline/diesel fuel USTs and the March 2014 "closure" of four aboveground petroleum storage tanks with capacities of 1,000-gallons (diesel and waste oil) and 249-gallons (two gasoline) and the recent removal (2017) of a 1,000-gallon diesel fuel AST (noted on a NYSDEC Petroleum Bulk Storage (PBS) Database to be "active."

- Absence of information associated with interior floor drainage structures and exterior stormwater drainage systems and location/condition of a reported onsite oil/water separator system which reportedly discharges to the Bronx River.

- Potential vapor intrusion issues with historic site use and presence of nearby commercial and light industrial properties.

FIGURE 1 - SITE LOCATION MAP



USGS TOPOGRAPHIC MAP
7.5 MINUTE SERIES - 2013
BRONX, NEW YORK

2.0 PROPERTY DESCRIPTION

2.1 Site Description

The property is located along the southeastern side of the Sheridan Expressway Service Road, approximately one-half mile southwest of the Cross Bronx Expressway (Interstate Route 95), in the Borough of Bronx (Fairmont - Claremont Village), City and State of New York (Figure 1). The site is situated within an commercial/light industrial setting and is bordered to the northeast by a commercial business (Marine Boiler & Welding) and four-story Sheridan Hotel, to the southeast by the Bronx River and commercial railway lines, to the southwest by a commercial structure operated as Sheridan Auto Repair, and to the northwest by the Sheridan Expressway Service Road and Sheridan Expressway (Interstate Route 895). The site topography is at grade with the Sheridan Expressway Service Road and slopes gradually to moderately downward towards the east/southeast. Photographs obtained during the performance of the property walk-through inspection are presented within Attachment A.

The irregularly shaped 1.93-acre (~84,000-ft^2) property is improved with an unoccupied one and part two-story (slab on grade) commercial building and two one-story steel frame masonry block former automotive parts storage buildings which have a reported combined area of ~46,000-ft^2. The site was last operated in early 2017 as LKQ Hunts Point Auto Parts Corp., a retail/wholesale automotive parts warehouse and distribution business. The building were constructed at various time frames dating back to the early 1900's. No documentation detailing historic site development or the performance of building renovation efforts was available. The main one and part two-story structure (built circa-1946) contains former administrative and sales offices, retail store (upper level of the two-story structure), employee locker room and lunch area, warehouse sections, auto parts sorting and storage areas, utility and mechanical rooms, and restroom facilities. Also found are several open sided multi-level auto parts storage rack structures which are in the process of being dismantled. The property is accessed from two Sheridan Expressway Service Road site entrances (one pedestrian entry way to a former second floor retail store/product showroom and a paved driveway accessing the northern most yard area). The central and southern sections of the property (paved areas) were used for vehicle parking and automotive parts sorting and storage purposes. According to Phase I ESA interviews, planned site development work calls for the demolition of all site structures and construction of an affordable housing complex. No formal site development plans or timetable for the performance of building demolition or site improvement work have yet been finalized.

The site is located within a City of New York zoning class M1 (Manufacturing) district. The potable water supply and sanitary waste treatment service are provided by the City of New York (New York

City Department of Environmental Protection). Electrical service and natural gas are supplied to the area by Consolidated Edison Utilities (ConEd). Facility heating (warehouse areas) is provided by ceiling mounted natural gas fired blower units. No site or regulatory information concerning the current onsite presence of any underground petroleum storage tanks (USTs) was available (confirmed by Simone Development Company representatives). Non-hazardous solid waste, waste automotive fluids, and scrap parts are removed for offsite disposal by private haulers. Utility service connections are located both aboveground and underground.

2.2 Site History

An on-line New York City Department of Finance Database indicated the subject parcel (City of New York Block 3017, Lot 29) to have been acquired by PDJ Simone Realty Co., LP in February of 2000 (Reel 1753, Page 1833). Former property owners have reportedly included PDJ Simone Realty Company (1984-2000), Hunts Point Auto Wrecker (1984), Pat, Joseph, and Donnie Simone (1979-1984), Hunts Point Auto Wreckers, Inc. (1978-1979), and Corbetta Construction Co. Inc. (?-1978). No previously conducted title searches, documentation detailing historic site ownership, or contact information for former property owners or business operators was available. None of the owners on record appear to have been a large scale industrial concern that would be expected to have utilized the property for the manufacturing, treatment, storage, or disposal of regulated hazardous materials.

An 1896 Sanborn Fire Insurance Map (Section 2.5) identified the subject property to house as a coal and lumber business. The 1901 and 1915 figures noted the site to be operated as a coal yard and to contain a number of assorted support structures. The parcel was shown to contain a concrete slab manufacturer in 1950 (Flexicore Company). The present day two-story building was indicated to have been built in 1946. The 1977 and 1978 fire insurance maps depicted the property to house Corbetta Construction Co., Inc. Maps from 1979-2007 indicated the property to be utilized as an "auto parts warehouse and yard." LKQ Hunts Point Auto Parts Corp. has reportedly operated onsite for approximately twenty years. Reviewed City Directories from 1983-2000 noted the site to have been previously tenanted by Hunts Point Auto Wreckers and Hunts Point Auto Parts. No regulatory information as to historic use of the subject parcel for large scale industrial purposes (i.e., activities expected to have routinely produced regulated hazardous materials or waste products) was available.

2.3 User Provided Information

No previously prepared title records, Phase I or II Environmental Site Assessment (ESA) reports, information concerning environmental liens, property use limitations, valuation reduction based on environmental issues, or commonly known/reasonably ascertainable information that is material

to recognized environmental conditions (RECs) in connection with the subject property was provided to TEAM during performance of the Phase I ESA.

2.4 Data Gaps

Based on review of available regulatory and historical sources and information provided as a result of Phase I ESA interviews, a "Data Gap" with regard to establishing historical use of the target property back to the time of initial development is not considered to be significant or affect the findings of the Phase I ESA.

2.5 Aerial Photograph Review

Aerial photographs of the subject property vicinity were reviewed by TEAM to assist with the evaluation of historic site use. Photographs were obtained from an on-line Google Earth web site (March 1995, March 2003, September 2005, March 2008, June 2010, and September 2015). All six figures (copies found within Attachment B) identified the present day site improvements and open storage yard. Neighboring properties were shown to be used for commercial and roadway purposes. The scale and clarity of these images precluded an in-depth inspection of the subject property for visual evidence of environmental impairment (e.g., aboveground petroleum storage tanks, fuel dispensing pumps, or illegal dumping).

2.6 Sanborn Fire Insurance Map Review

Sanborn Fire Insurance Maps were obtained for the Sheridan Expressway Service Road property area for the years 1896, 1901, 1915, 1950, 1977, 1978, 1979, 1980, 1981, 1983, 1985, 1986, 1989, 1991, 1992, 1993, 1994, 1995, 1996, 1998, 2001, 2002, 2003, 2004, 2005, 2006, and 2007. The review of several figures (copies provided within Attachment C) were difficult due to poor map clarity, historic changes in neighboring roadway configurations, and absence of readily identifiable property boundaries. The 1896 map depicted the site to house as a coal and lumber business. The 1901 and 1915 figures indicated the property to be operated as a coal yard and to contain a number of assorted support structures (stables, coal pockets and bins, wagon shed, engine room, hoppers, screen, garage, and sheds). The business was referenced in 1915 to be operated as the Olin J. Stephens Coal & Wood Yard. The site was noted to contain a concrete slab manufacturer in 1950 (Flexicore Company). The present day two-story building (shown to be built in 1946) was identified within the southwestern section of the site. The 1977 and 1978 figures illustrated the property to house Corbetta Construction Co., Inc. Maps from 1979-2007 indicated the property to be utilized as an "auto parts warehouse and yard." The site was improved with the two-story building and one-story shop, storage building, sheds, and open contractors yard. None of the inspected fire insurance maps noted historic use of the subject parcel for large scale industrial or manufacturing purposes.

2.7 City Directory Abstract Review

To obtain information concerning historic site use and former onsite businesses, TEAM obtained a City Directory Abstract (Attachment D) for the 1480 Sheridan Expressway property location for the years 1983, 1993, 2000, 2005, 2010, and 2014. Identified former onsite tenancies were indicated to have included Hunts Point Auto Wreckers and Hunts Point Auto Parts (1983-2000) and LKQ Hunts Point Auto Parts and LKQ Corporation (2005-2014).

3.0 SITE INSPECTION

On May 3, 2017, TEAM together with Al Nesheiwat (Sustainable Development, Inc.), conducted an inspection of accessible sections of the site buildings and surrounding property. The authorized scope of work did not include performance of any field sampling activities (e.g., asbestos, soil, lead-based paint, mold, or groundwater) or completion of a formal regulatory compliance audit, as it would relate to the current/historic use, storage, permitting, treatment, or disposal of regulated materials and generated waste products. A listing of Phase I ESA interview and information sources is presented as Attachment E.

3.1 Property Inspection

The inspection of accessible property areas (limited due to the presence of scattered storage rack demolition debris) revealed no unusual odors or visual evidence of significant surface stains that could be indicative of leaking petroleum storage tanks, chemical spills, or industrial waste disposal. No PCB-labeled equipment, aboveground petroleum or chemical storage tanks, suspected underground petroleum storage tank fill ports or vent pipes, unmarked waste storage containers, water supply or groundwater monitoring wells, or industrial waste storage or disposal facilities within the property confines were observed. Found within the central portions of the site were three trench a number of rectangular shaped drains. A steel grate covered possible oil/water separator was noted along the eastern property border with the Bronx River. Standing water observed within the inspected drains appeared to have petroleum sheens and exhibited a mild petroleum odor. No information concerning the onsite presence or maintenance of any oil/water separator systems was available. A suspected drainage discharge pipe to the Bronx River could not be accessed for inspection.

No surface water bodies or freshwater wetland habitat areas were observed within the subject property confines. This was confirmed during follow-up review of a USGS topographic map. As indicated, the Bronx River is located along the southeastern property border. The authorized Phase I ESA scope of work did not include performance of formal freshwater wetland or flood plain delineation surveys.

3.2 Building Inspections

The inspection of accessible interior building areas (difficult due to poor interior lighting and the presence of storage racks, scattered building demolition debris, and remaining furnishings) revealed no unusual odors or readily visual evidence of PCB-labeled electrical equipment, aboveground petroleum or chemical storage tanks, suspected underground petroleum storage tanks, unmarked waste storage drums/containers, significant chemical spillage or surface stains, exposed mold, or industrial waste storage areas. TEAM was informed that all generated LKQ Hunts Point Auto Parts automotive related waste fluids were stored in designated containers and transported offsite for disposal by licensed contractors. No hazardous waste products requiring RCRA manifesting and tracking procedures were reportedly generated as a result of recent commercial site operations. No exposed suspected friable asbestos containing materials (ACM) were observed during the walk-through inspection. Based on the age of the buildings, ACM may be associated with the site structures. No information concerning the performance of asbestos inspection or abatement operations associated with historic building renovation efforts was available. The authorized Phase I ESA scope of work did not include performance of formal asbestos or lead-based paint inspection or sampling surveys.

Identified within the ground floor level of the two-story structure were several concrete filled artifacts (possible former truck scales) and assorted floor drains (several of which contained standing water which exhibited a mild petroleum odor). No information concerning the discharge points for the drainage systems was available.

4.0 RECORDS REVIEW AND DOCUMENTATION

4.1 Regulatory Review - NYSDEC/City of New York

The requested Phase I ESA time frame and scope of work precluded submittal of written Freedom of Information Legislation (FOIL) requests to the New York State Department of Environmental Conservation (NYSDEC) Region 2 Petroleum Bulk Storage (PBS) Program, New York City Department of Environmental Protection (NYCDEP), or the City of New York Bureau of Fire Prevention (estimated three to five weeks to obtain access to maintained property records).

Under the New York State Department of Environmental Conservation (NYSDEC) Petroleum Bulk Storage (PBS) Program, facilities with a petroleum storage capacity of greater than eleven hundred gallons are required to comply with registration, handling, storage, and record keeping requirements established in 6 NYCRR Parts 612-614. According to an online NYSDEC PBS Database, the subject property (LKQ Hunts Point Auto Parts Corp.) was registered as PBS No. 2-

233366 (expiration date April 26, 2016). The site was shown to have one "in-service" 1,000-gallon aboveground diesel fuel storage tank (AST) and four "closed-removed" ASTs which included two 249-gallon gasoline, one 1,000-gallon gasoline, and one 1,000-gallon diesel fuel tank. The tank closure date was listed as March 2014. As the current onsite petroleum storage capacity is less than 1,100-gallons, the site status was indicated to be "Unregulated - Closed." As indicated within the federal and state environmental database report (Section 4.2), NYSDEC Spill Number 97-02732 was issued to the site (Hunts Point Auto Wreckers) on June 3, 1997 based on the tightness testing failure for three inactive (reportedly filled with water) underground petroleum (two gasoline and one diesel fuel) storage tanks (USTs). Said USTs were indicated to have subsequently been removed. The Spill Number was "closed" on November 28, 2005 following the completion of site remediation activities. No UST, AST, or NYSDEC Spill Number closure documentation was available for TEAM review.

4.2 Federal and State Environmental Database Report

TEAM has obtained an Environmental Data Resources (EDR) Site Assessment Report, which provides information concerning the target property and those sites listed within any of the following Federal and State environmental databases:

- National Priority List (NPL);
- Resource Conservation and Recovery Information System (RCRIS),
  Large Quantity Generators and TSD Facilities,
  Small Quantity Generators and Transporters;
- New York State/Tribal Brownfield Sites (BROWNFIELD);
- New York State Spills Database (SPILLS);
- Comprehensive Environmental Response, Compensation, and Liability System (CERCLIS);
- CERCLIS "No Further Remedial Action Planned" Sites (NFRAP);
- New York State Registry of Inactive Hazardous Waste Disposal Sites (SHWS);
- State Pollutant Discharge Elimination (SPDES);
- Registered Dry Cleaners (DRYCLEANERS);
- Emergency Response Notification System (ERNS);
- Facility Index System (FINDS);
- Air Facility System (US AIRS);
- New York Leaking Storage Tanks (LUST);
- New York Chemical Bulk Storage Tanks (CBS);
- New York State DEC Voluntary Cleanup Program (VCP);
- New York Active Solid Waste Facility Register (SWL); and
- New York Registered Bulk Storage Tanks (UST/AST).

The EDR Database Report presented in Attachment F, identified no NPL, CERCLIS, NFRAP, MOSF, ERNS, or VCP sites within the survey radius. One SHWS, one SWL, one BROWNFIELD, twenty-six SPILLS, and forty-one SPILLS sites are found within a one-eighth to one-quarter mile distance. The 1480 Sheridan Expressway Service Road property (Hunts Point Auto Wreckers and LKQ Hunts Point Auto Parts Corp.) was identified in the LUST, AST, CBS, SWL, RCRA, MANIFEST, SPDES, US AIRS, and FINDS Databases. The AST Database indicated the site to have been registered with the NYSDEC Petroleum Bulk Storage (PBS) Program as PBS No. 2-233366. An on-line NYSDEC PBS Database noted the registration expiration date as April 26, 2016. The site was shown to have five ASTs with capacities of 1,000-gallons (one active diesel fuel tank installed onsite in April of 2014 and two gasoline tanks removed in March of 2014) and 249-gallons (gasoline and diesel fuel tanks installed in January 2001 and "closed-removed" in March of 2014). The PBS regulatory status was identified as "Unregulated-Closed." The LUST Database listed as Spill Date of June 3, 1997 (reported tank testing for failure for "Old tanks which were filled with water years ago...Were being pressure tested per the Fire Dept. for ten year test...Tanks were originally for diesel and gasoline." The database description stated that "FD required 10 year test because they were still listed as active. All 3 tanks (2 gas & 1 diesel) failed...11/28/05...Tanks removed. Remediation report and analytical results were submitted to DEC 8/97." The issued Spill Number was shown to have been "closed" on November 28, 2005.

The CBS Database identified the site as CBS No. 2-000383 referenced the presence of an active 300-gallon double-walled ethylene glycol (anti-freeze) storage tank (installed in January of 2001). No descriptive site information was noted within the US AIRS Database listing. The SPDES Database listed Permit No. NYR00B428 (expiration date September 30, 2017) and a reported water body to be the Bronx River. No detailed information was provided. The SWL Database classified the site as an active "Vehicle Dismantling Facility." The MANIFEST Database was associated with the 1992 offsite disposal of "Non-listed ignitable wastes." The RCRA Database classified the Hunts point Auto Wreckers business (as of January 2006) as a "Conditionally Exempt Small Quantity Generator." The Waste Name was reported as "Ignitable Waste." No violations were noted. The FINDS Database consists of an inventory of facilities regulated or monitored by the U.S. EPA. Said facilities are assigned identification numbers that enable the cross-referencing of other U.S. EPA databases. Inclusion within this database does not indicate hazardous waste discharge.

The SHWS site (Bethel Cleaners) is situated approximately 2,000-feet to the southwest at 1120 Westchester Avenue. No significant offsite environmental issues or regulatory concerns were referenced in the database description. The BROWNFIELD site is found approximately 2,250-feet tot he southwest at 1095 Southern Boulevard.

4.3 Vapor Intrusion and Encroachment Conditions

With regard to vapor intrusion issues (i.e., process by which volatile organic compounds move from the subsurface into the indoor air of overlying or adjacent buildings via contaminated groundwater or soil), it should be noted that based on field observations and review of the EDR database report, it is our opinion that vapor encroachment conditions (VECs) may be associated with the target property. Based on the planned site development project, TEAM recommends performance of a formal Tier I (non-intrusive) Vapor Encroachment Screening (VES) to determine the potential for vapor encroachment conditions (VECs) in connection with the property and future improvement work.

5.0 CONCLUSIONS

Based on review of available historical and regulatory information, performance of Phase I ESA interviews, and findings of the site walk-through inspection, TEAM has identified the following Recognized Environmental Conditions (RECs) and Historical Recognized Environmental Conditions (HRECs) associated with the subject property:

- Potentially significant residual soil/groundwater quality contamination issues associated with onsite fill materials and historic property use as a coal storage yard and for concrete slab manufacturing and vehicle dismantling operations.

- Absence of available documentation associated with the issuance and closure of New York State Department of Environmental Conservation (NYSDEC) Spill No. 97-02732 which was issued on June 3, 1997 based on reported tightness test "failures" for three inactive underground petroleum (two gasoline and one diesel fuel) storage tanks (USTs).

- Absence of documentation associated with the locations and removal of the three gasoline/diesel fuel USTs and the March 2014 "closure" of four aboveground petroleum storage tanks with capacities of 1,000-gallons (diesel and waste oil) and 249-gallons (two gasoline) and the recent removal (2017) of a 1,000-gallon diesel fuel AST (noted on a NYSDEC Petroleum Bulk Storage (PBS) Database to be "active."

- Absence of information associated with interior floor drainage structures and exterior stormwater drainage systems and location/condition of a reported onsite oil/water separator system which reportedly discharges to the Bronx River.

- Potential vapor intrusion issues with historic site use and presence of nearby commercial and light industrial properties.

6.0 RECOMMENDATIONS

To address the Phase I ESA identified RECS and HREC associated with the 1480 Sheridan Expressway Service Road property, TEAM provides the following recommendations for the performance of a follow-up Phase II ESA

- To obtain available regulatory information concerning the subject property, historic petroleum and chemical bulk storage (PBS) operations, and NYSDEC Spill Number Spill No. 97-02732, FOIL requests should be submitted to the New York State Department of Environmental Conservation (NYSDEC) Region 2 Petroleum Bulk Storage (PBS) Program, New York City Department of Environmental Protection (NYCDEP), and the City of New York Bureau of Fire Prevention.

- To establish current soil/groundwater quality information and impacts associated with the presence of fill materials (placed onsite at the time of property development), a site wide Phase II ESA should be completed. Prior to the performance of this work, a geophysical ground-penetrating radar (GPR) survey should be completed to "clear" planned soil boring locations and to identify subsurface anomalies associated with possible inactive UST(s), underground utilities, and onsite drainage systems. Borings should also be installed within the building proximate to drainage systems and artifacts of unknown historical utility.

- Onsite drainage systems (exterior and interior) should be inspected to determine discharge points. The location(s) and conditions of any oil/water separator systems should be established.

- A formal Tier I (non-intrusive) Vapor Encroachment Screening (VES) should be completed to determine the potential for vapor encroachment conditions (VECs) in connection with the property and planned site improvement work.

7.0 LIMITATIONS

The conclusions stated are based on the limits of the investigation described herein. TEAM can offer no assurances and assumes no responsibility for site conditions or activities which were outside the scope of the inquiry requested. It should be understood that TEAM has relied on the accuracy of documents, oral information, and other material and information provided by sources documented in this report. There can be no assurance, and TEAM offers no assurance, that site conditions do not exist or could not exist in the future which were undetected and which could lead to liability in connection with the site. Similarly, past and present activities on the site indicating potential environmental concerns may not have been discovered by TEAM's inquiries. TEAM was not requested to perform any follow-up environmental field investigations pertaining to site observations and historic property use. I (Martin C. Wodka) declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of this part (40 CFR Part 312). I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. The Phase I ESA was prepared for reliance by PDJ Simone Realty Co. and Simone Development Co., LLC.

Martin C. Wodka
President

ATTACHMENT A

SITE PHOTOLOG - MAY 3, 2017

ATTACHMENT A – PHOTOLOG

PDJ SIMONE REALTY CO. PROPERTY

1480 SHERIDAN EXPRESSWAY, BRONX, NEW YORK

Photo No.	Description
1	Southern view from Sheridan Expressway Service Road towards subject property.
2	Former onsite business signage.
3	Northeastern view from Sheridan Expressway Service Road.
4	Eastern view towards northern most site entrance (yard area).
5	Neighboring commercial properties found to the north along Sheridan Expressway Service Road.
6	Neighboring commercial properties located to the south along Sheridan Expressway Service Road.
7	Northeastern view towards former one-story storage structure situated with the northeastern section of the subject property.
8	Interior view within storage building.
9	Former open sided storage sheds found within the northwestern section of the property
10	Western view towards former open sided storage sheds.
11	Northern view towards former auto parts storage building found within the southeastern section of the property.
12	Interior view within former auto parts storage structure.
13	Southwestern view towards one and part two-story building located within the southwestern section of the property.
14	Northern view within the central section of the site.
15	Typical (one of three) trench drains located within property.
16	Typical stormwater collection drains situated within the central section of the property.
17	Possible location of oil/water separator system along the eastern property border with the Bronx River.

18	View from subject property towards the Bronx River.
19	Southern view towards southern most section of property.
20	View towards northeaster side of one and part two-story structure.
21	Former second floor LKQ Hunts Point Auto Parts retail sales and product display area.
22	Roof mounted HVAC systems.
23	Former ground floor administrative office area.
24	Former ground floor parts storage racks.
25	Former ground floor parts storage bins.
26	Peeling and chipping painted surfaces located within lower level storage room.
27	Cemented "artifact" located on ground floor level.
28	Trench drain located proximate to ground floor overhead bay door.
29	Typical ground floor drainage structure.
30	Ceiling mounted heating system found in warehouse area.


BUILDING AND LOT FOR LEASE (718) 215-3000

1


HUNTS POINT AUTO PARTS

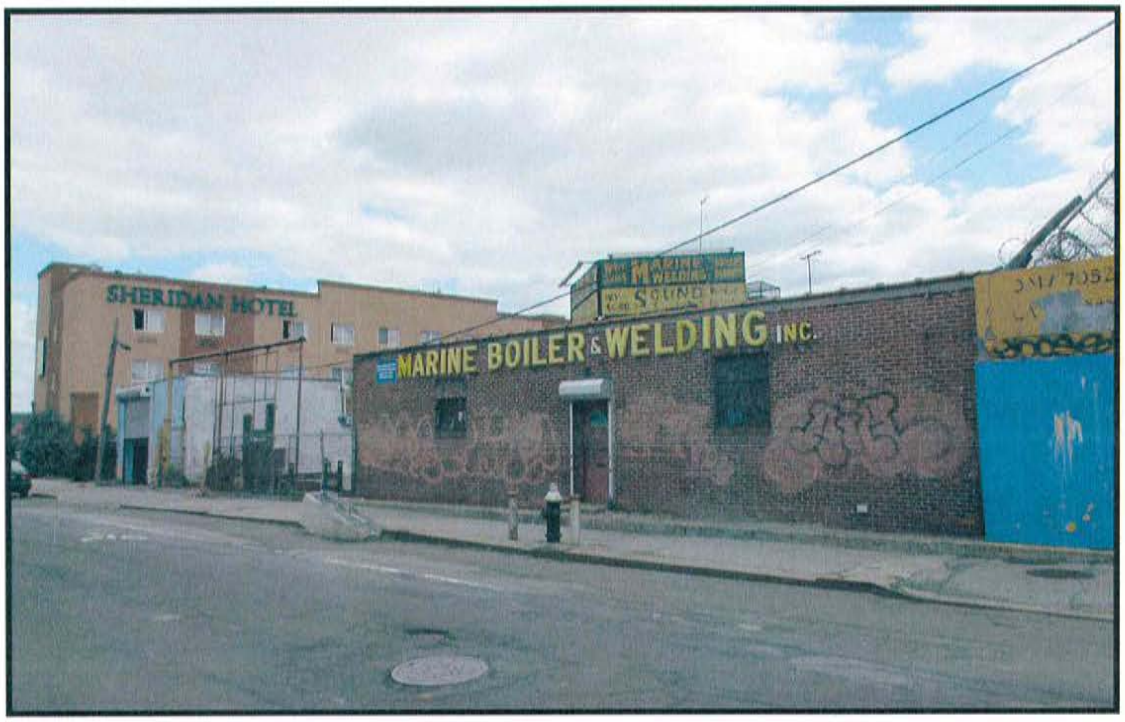
2



3



4


SHERIDAN HOTEL
MARINE BOILER & WELDING INC.

5


SHERIDAN
AUTO REPAIR
AUTO REPAIR
1476
RENT
AUTO
COLLISION

6



7



8



9



10



11



12



13



14



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16



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18



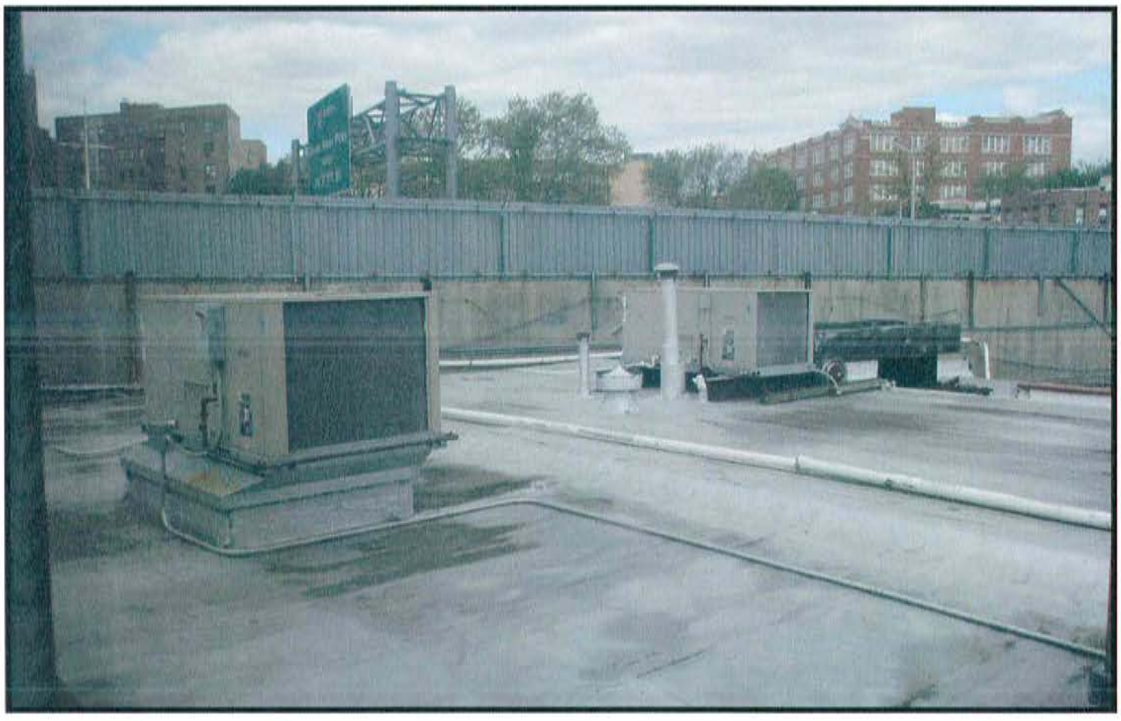
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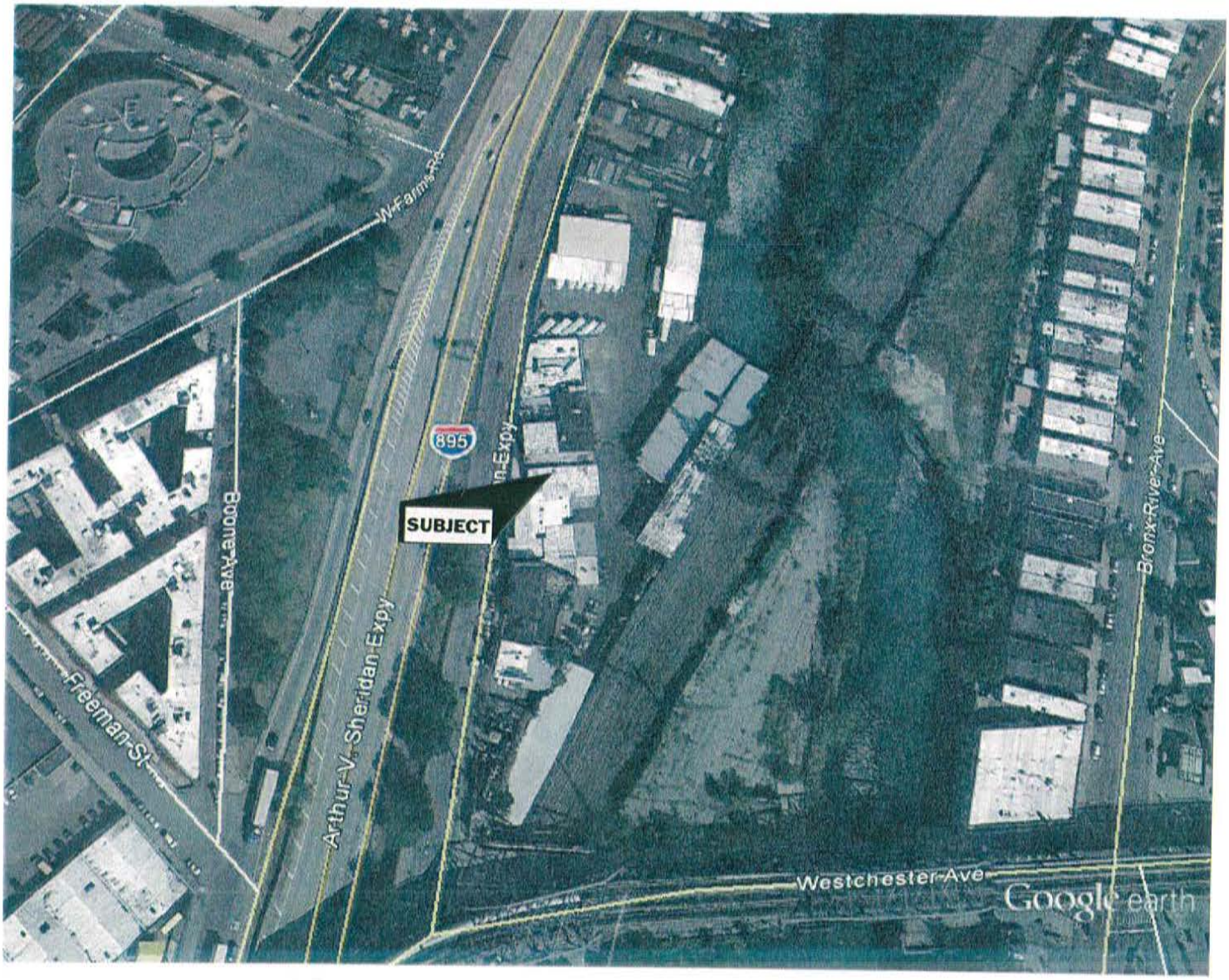


30

ATTACHMENT B

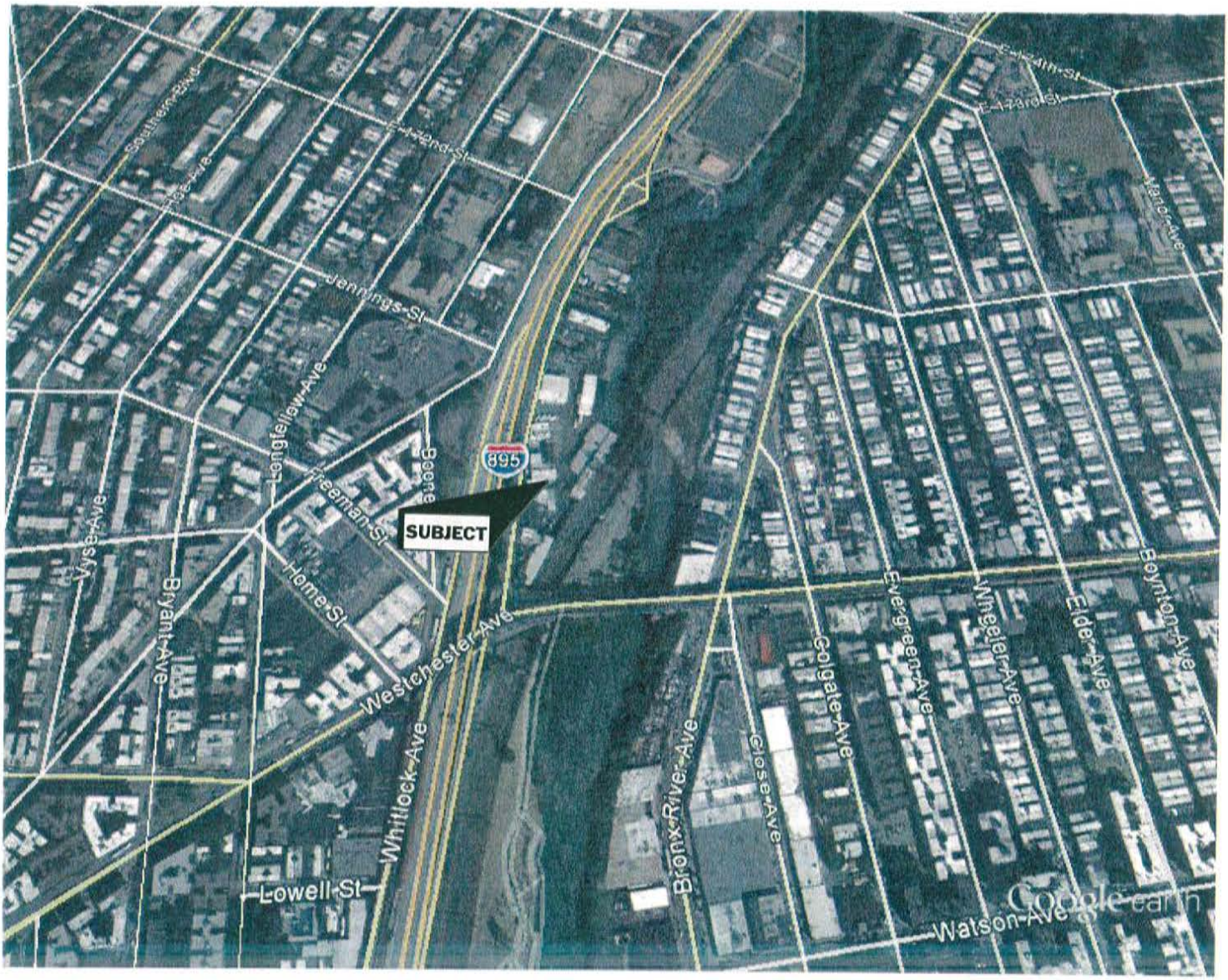
AERIAL PHOTOGRAPHS

AERIAL PHOTOGRAPH



GOOGLE EARTH AERIAL PHOTOGRAPH
BRONX, NEW YORK - SEPTEMBER 2015

AERIAL PHOTOGRAPH



GOOGLE EARTH AERIAL PHOTOGRAPH
BRONX, NEW YORK - SEPTEMBER 2015

AERIAL PHOTOGRAPH



GOOGLE EARTH AERIAL PHOTOGRAPH
BRONX, NEW YORK - JUNE 2010

AERIAL PHOTOGRAPH

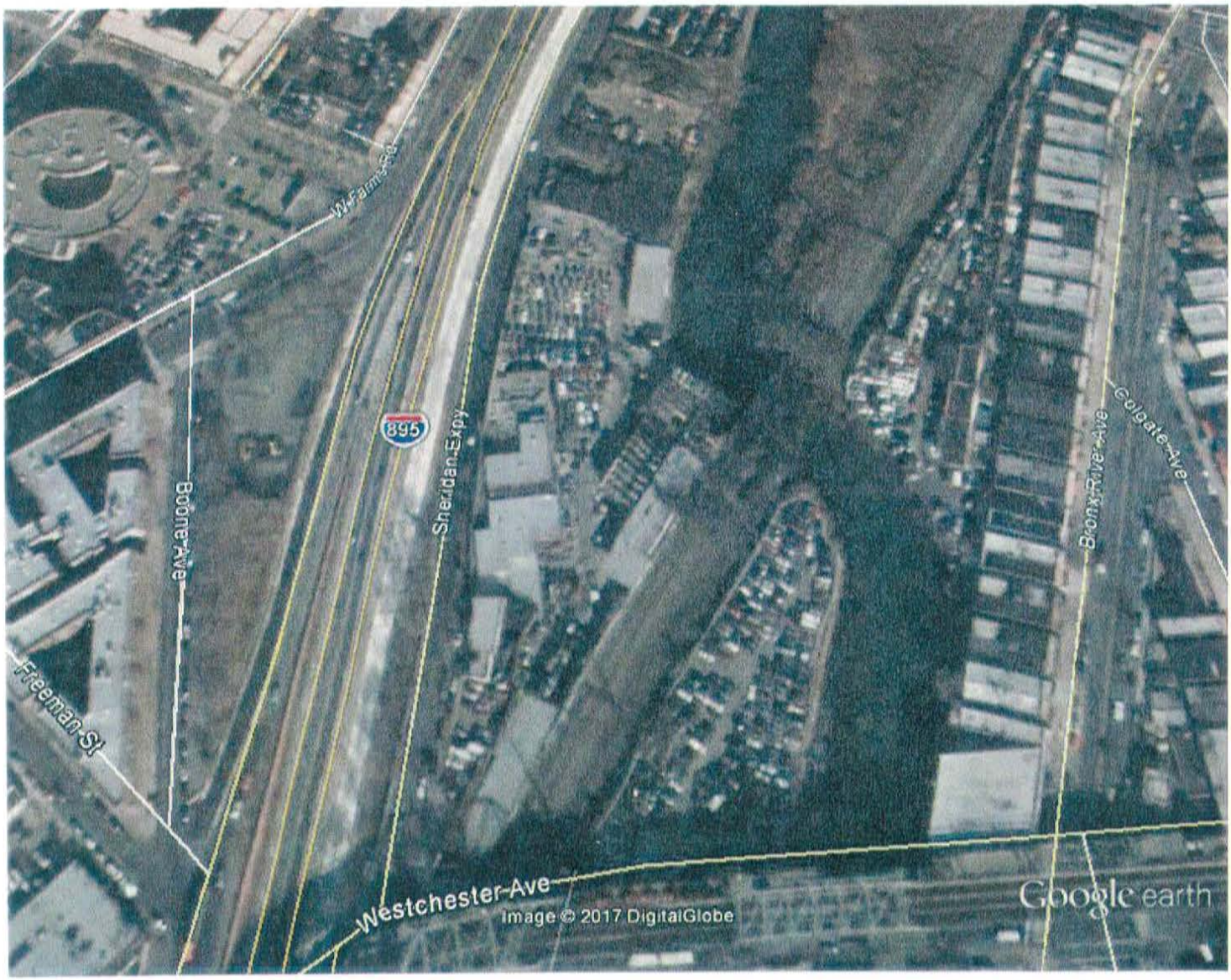

Jennings St
W Farms Rd
895
Sheridan Expy
Bronx River Ave
Bronx River Ave
Bronx River Ave

AERIAL PHOTOGRAPH



GOOGLE EARTH AERIAL PHOTOGRAPH
BRONX, NEW YORK - SEPTEMBER 2005

AERIAL PHOTOGRAPH



GOOGLE EARTH AERIAL PHOTOGRAPH
BRONX, NEW YORK - MARCH 2003

AERIAL PHOTOGRAPH



GOOGLE EARTH AERIAL PHOTOGRAPH
BRONX, NEW YORK - MARCH 1995

ATTACHMENT C

SANBORN FIRE INSURANCE MAPS

1480 Sheridan Expressway

1480 Sheridan Expressway

Bronx, NY 10459

Inquiry Number: 4926771.3

May 04, 2017

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

05/04/17

Site Name:

1480 Sheridan Expressway
1480 Sheridan Expressway
Bronx, NY 10459
EDR Inquiry # 4926771.3

Client Name:

Team Environmental Consultants
30 Industrial Drive
Middletown, NY 10941
Contact: Martin Wodka

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Team Environmental Consultants were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # D74B-4B09-AAEA

PO # NA

Project NA

Maps Provided:

2007	1996	1985	1950
2006	1995	1983	1928
2005	1994	1981	1919
2004	1993	1980	1915
2003	1992	1979	1903
2002	1991	1978	1901
2001	1989	1977	1896
1998	1986	1969	

Sanborn® Library search results

Certification #: D74B-4B09-AAEA

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Team Environmental Consultants (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

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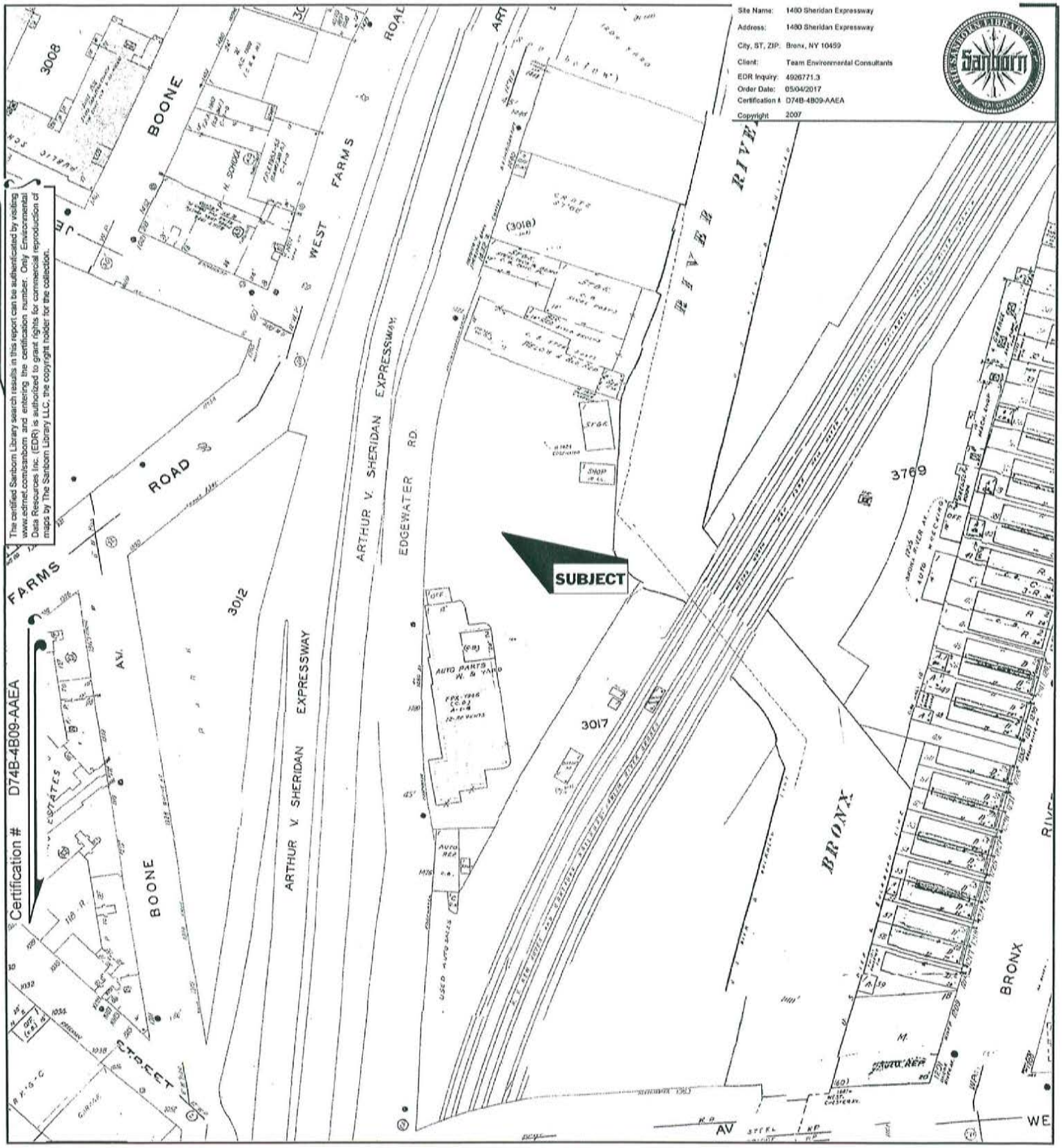
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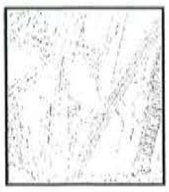
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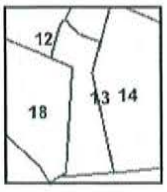
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2007



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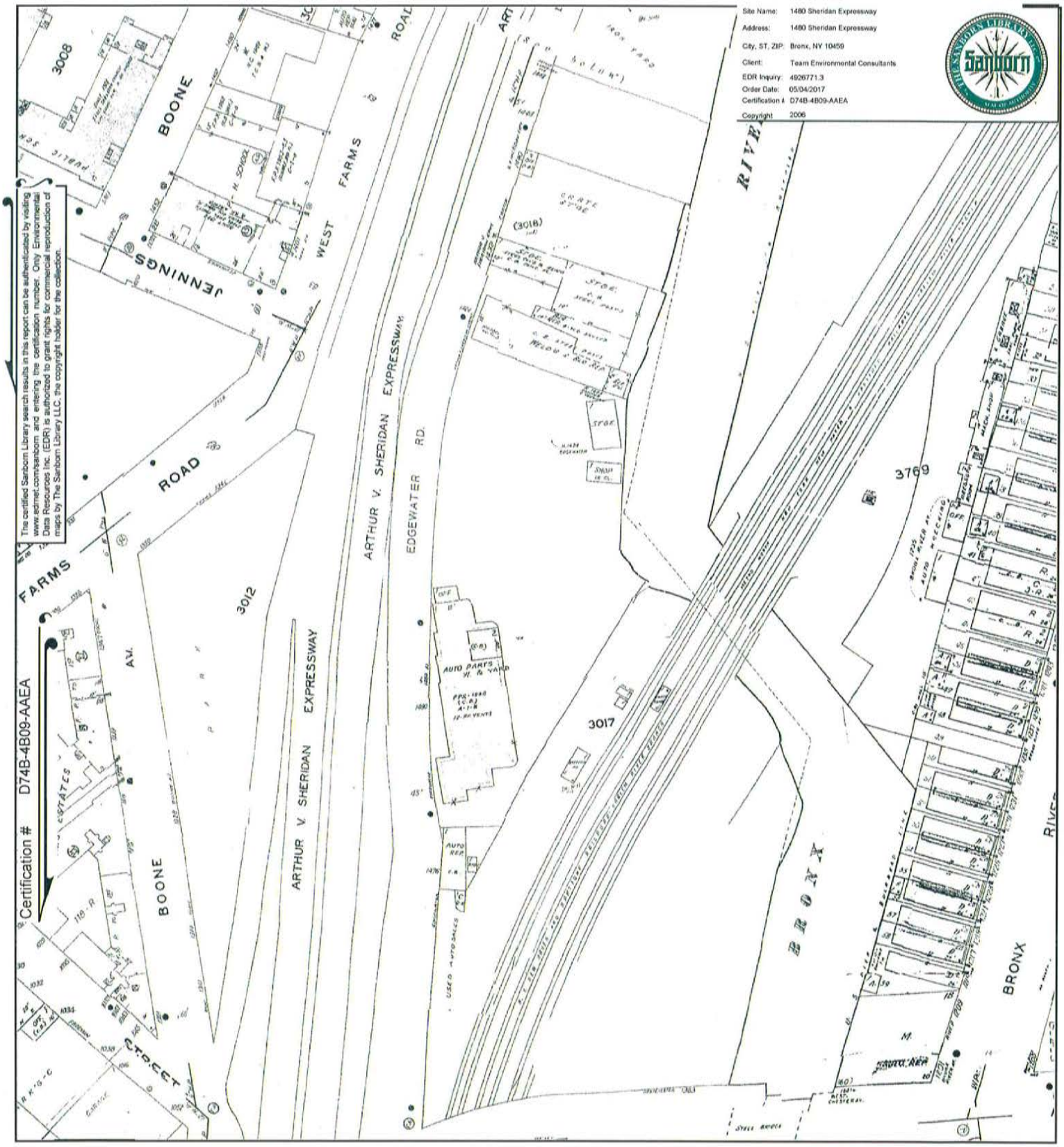
Volume 17, Sheet 14
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Volume 16, Sheet 12

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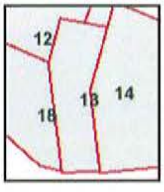
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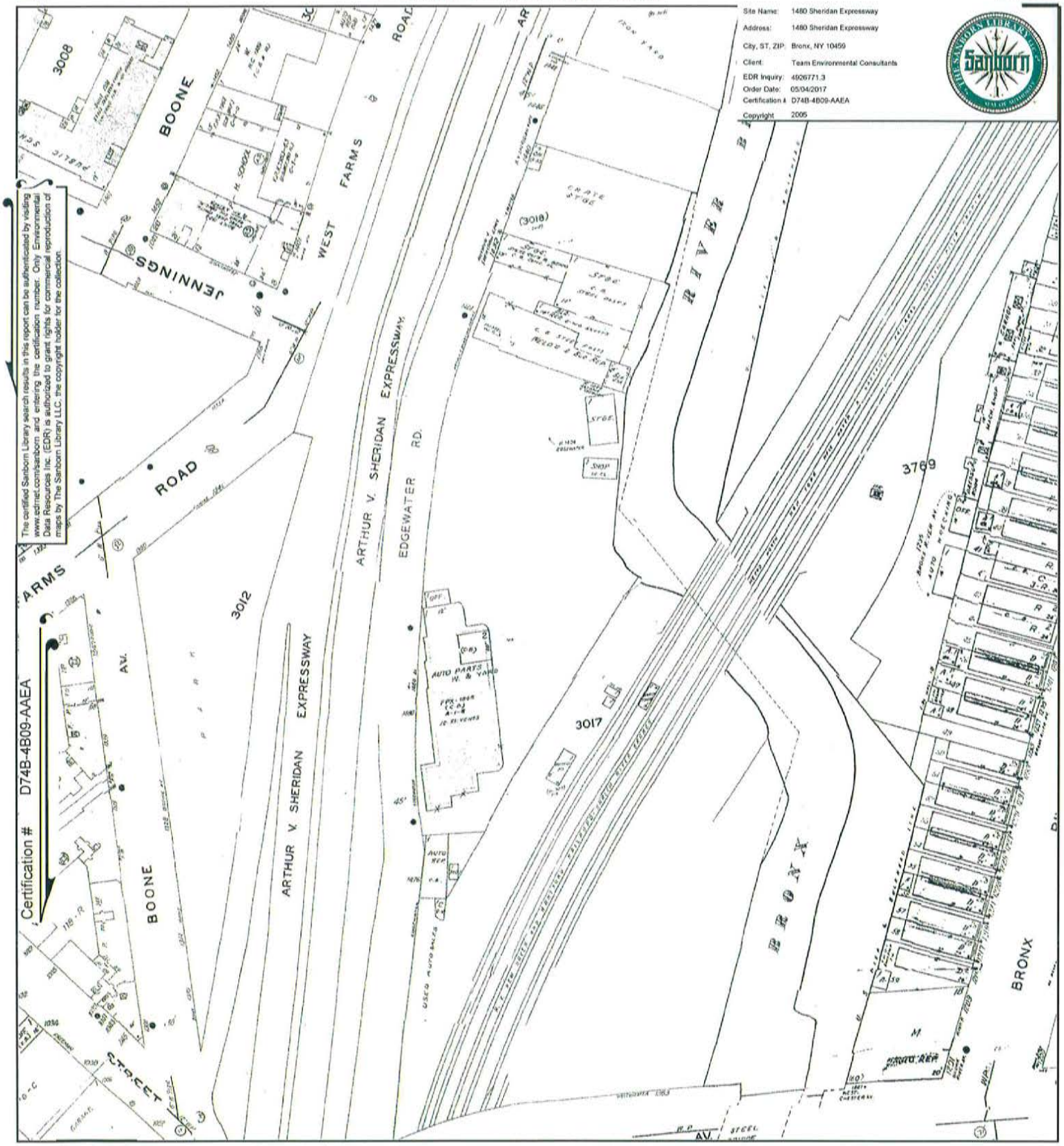


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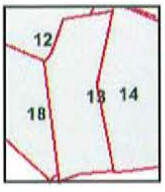
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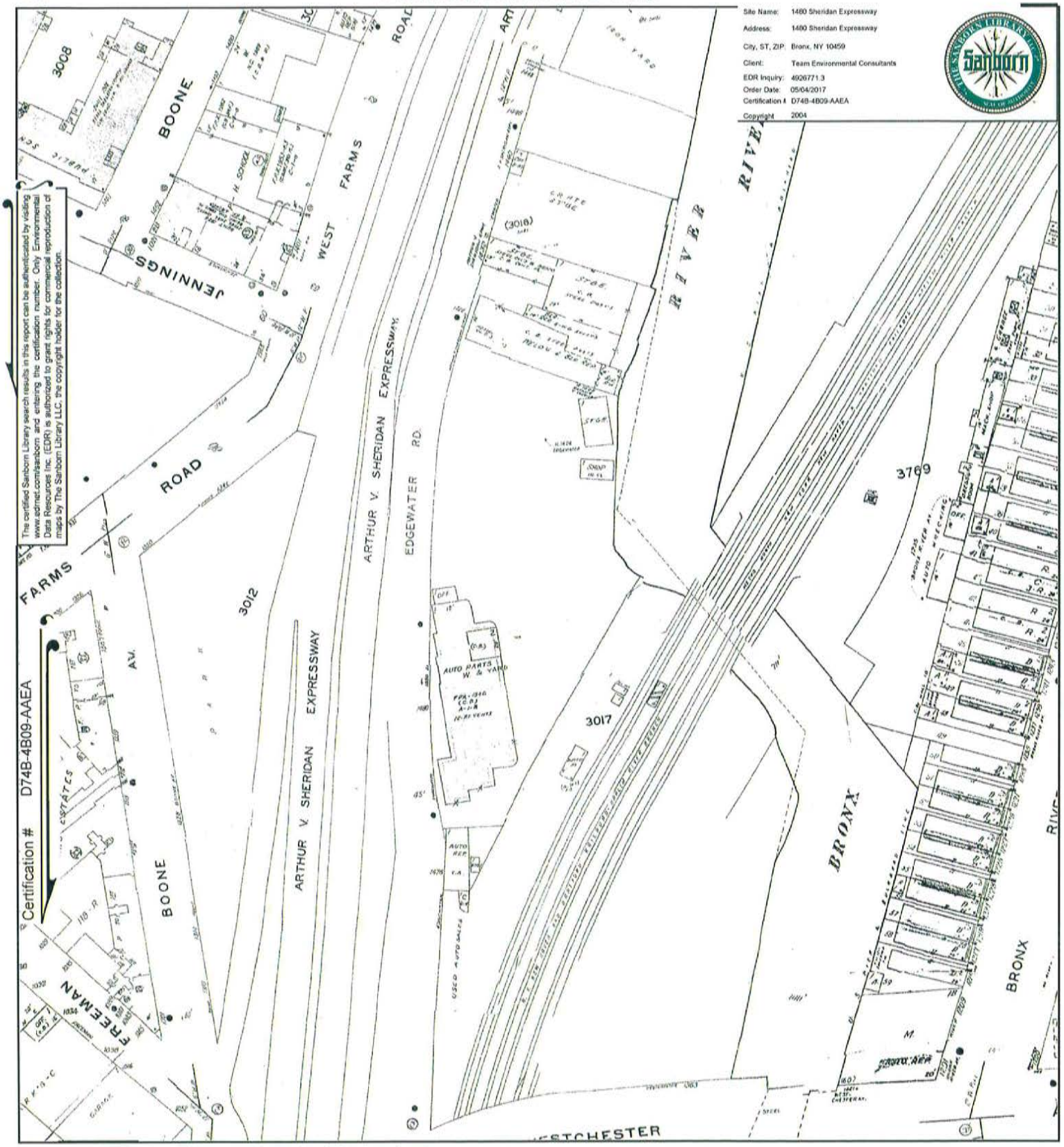


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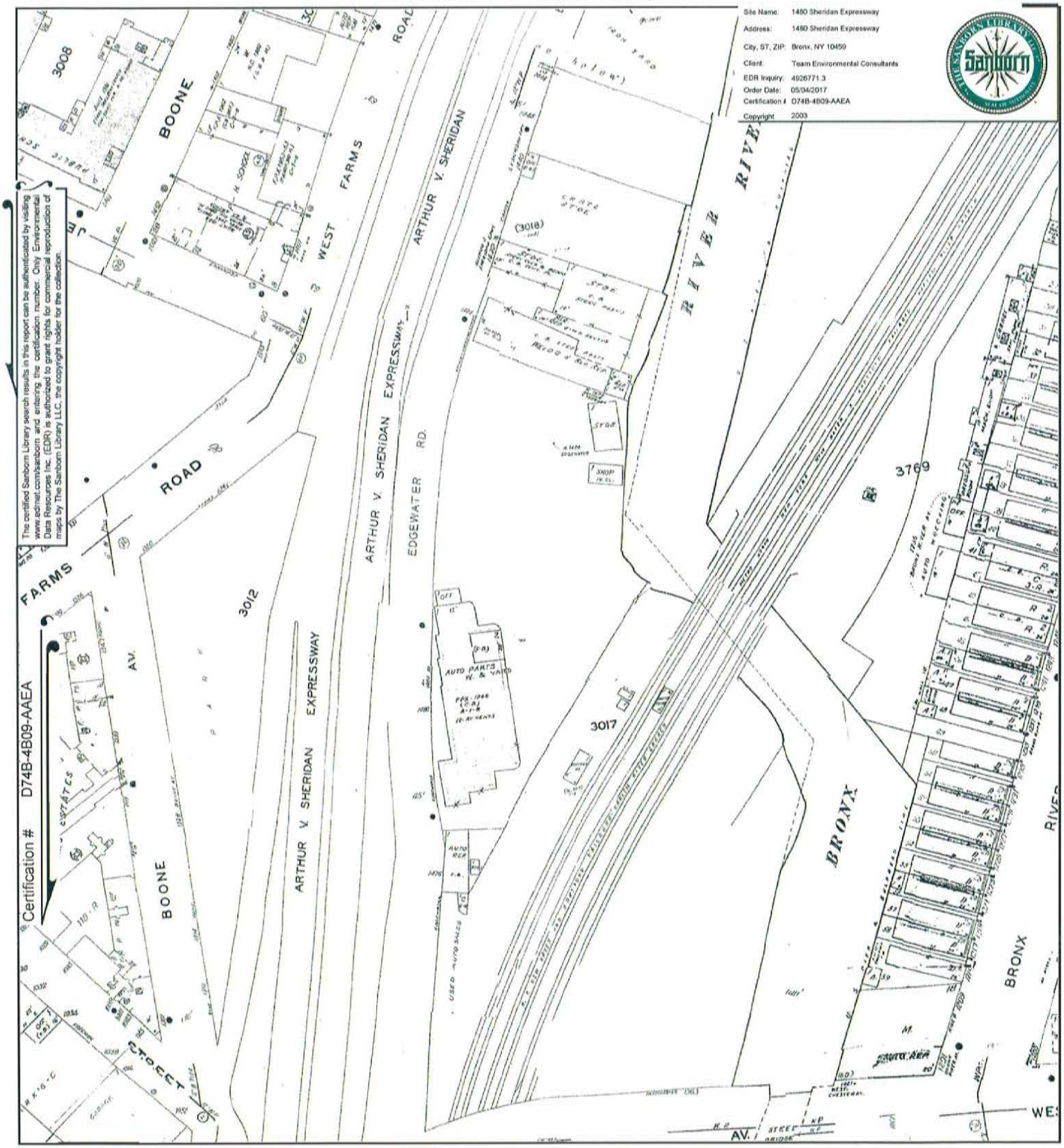


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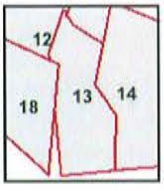
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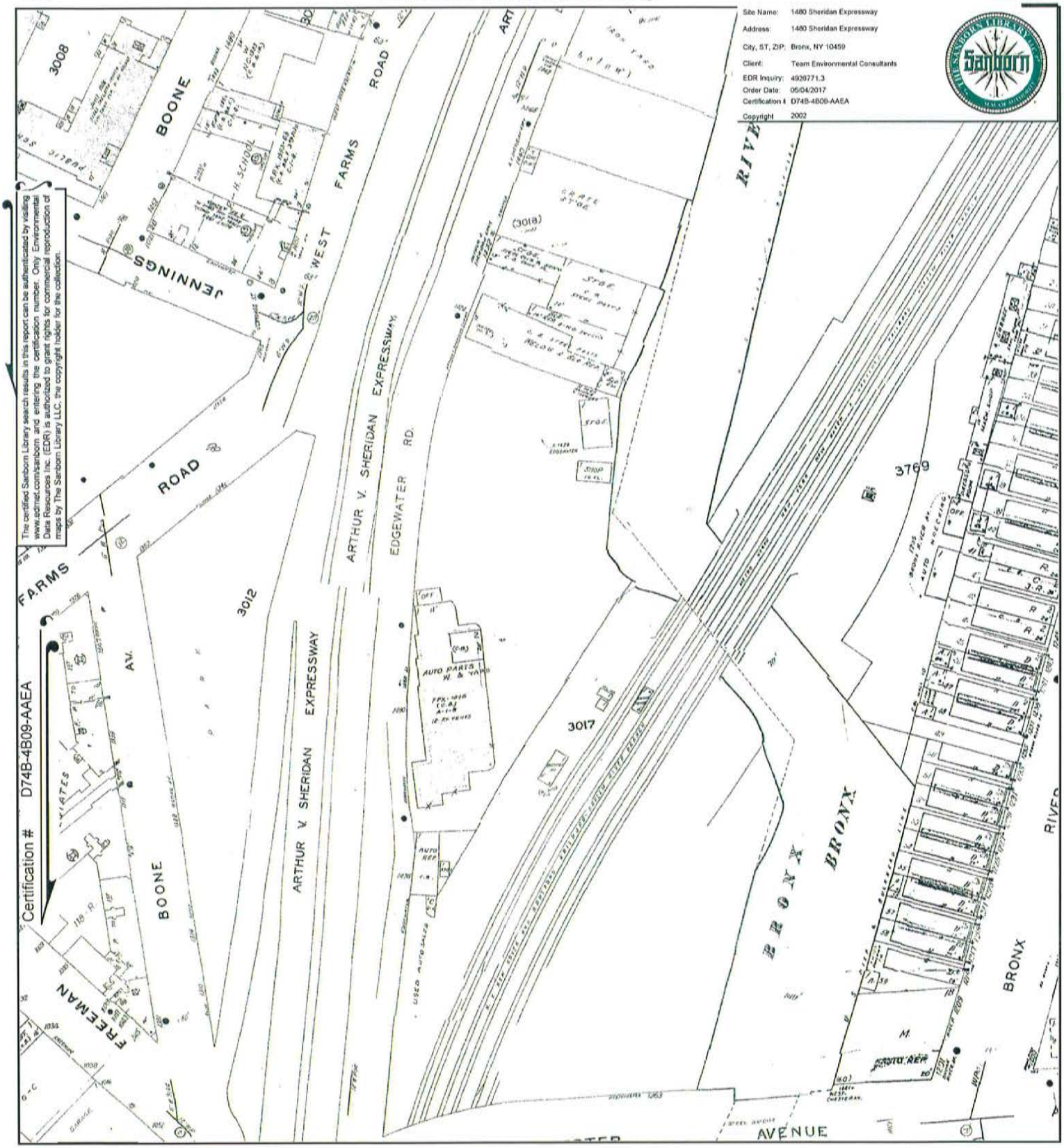
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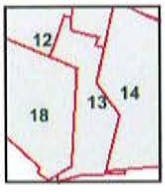
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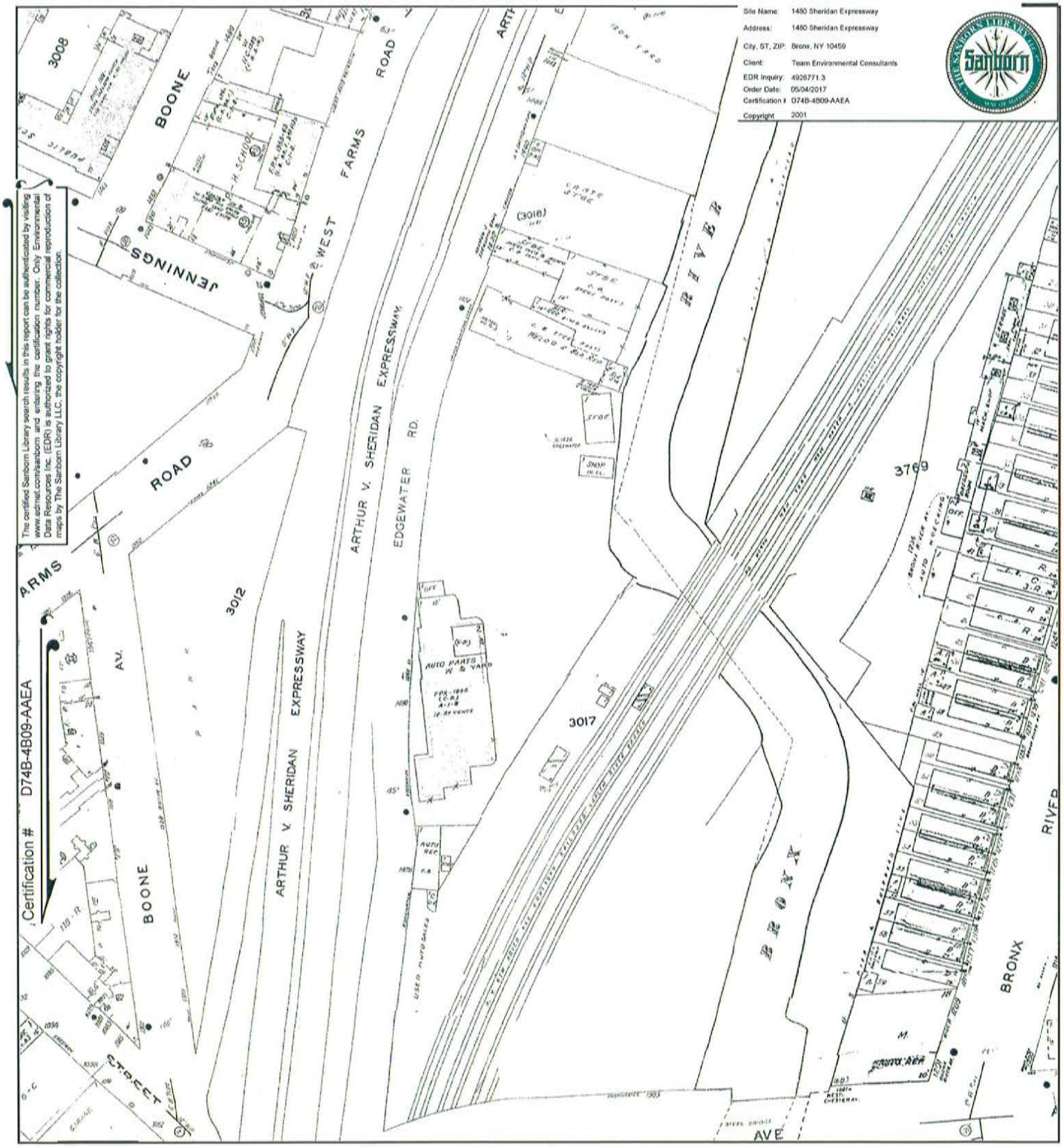
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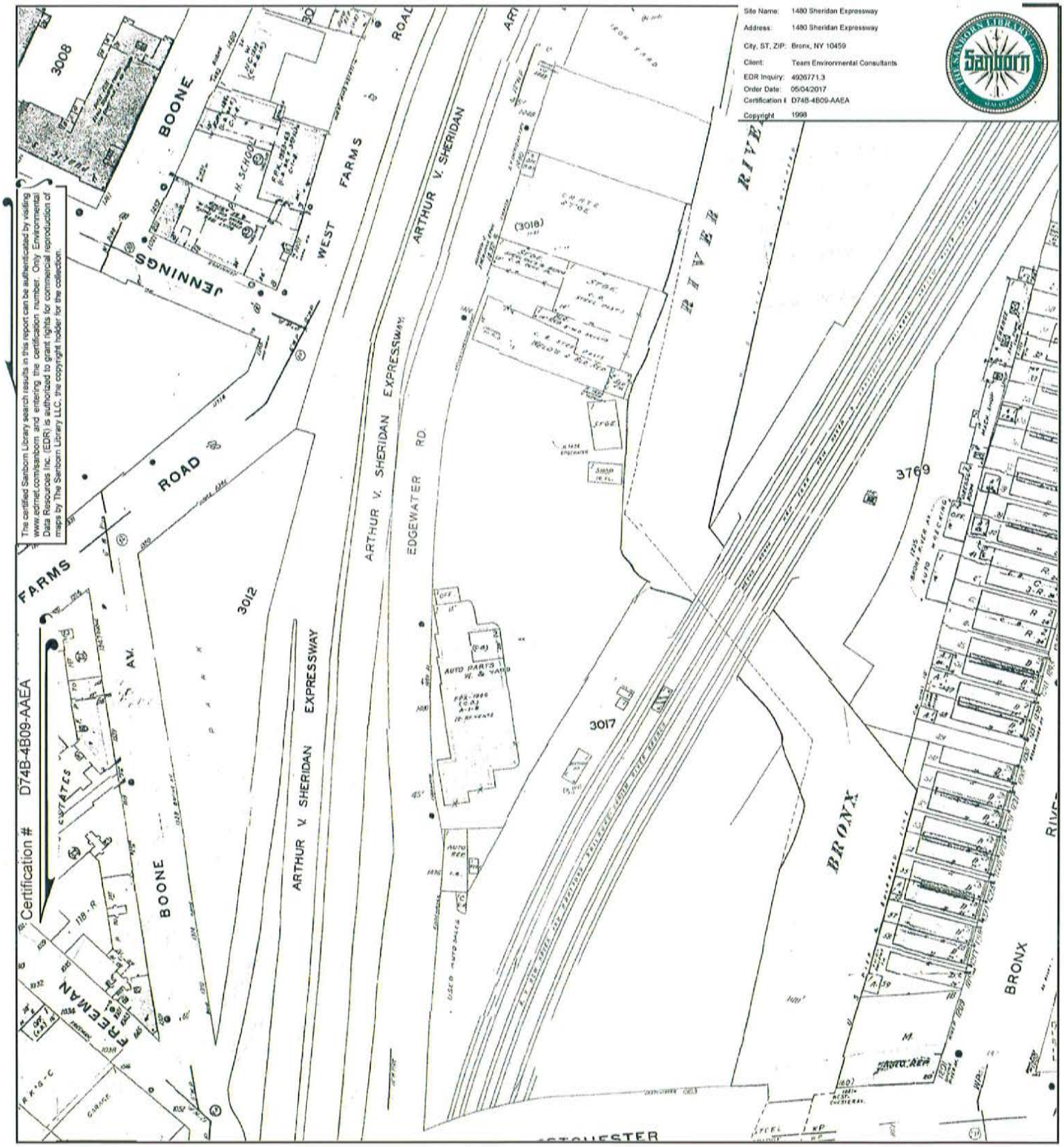
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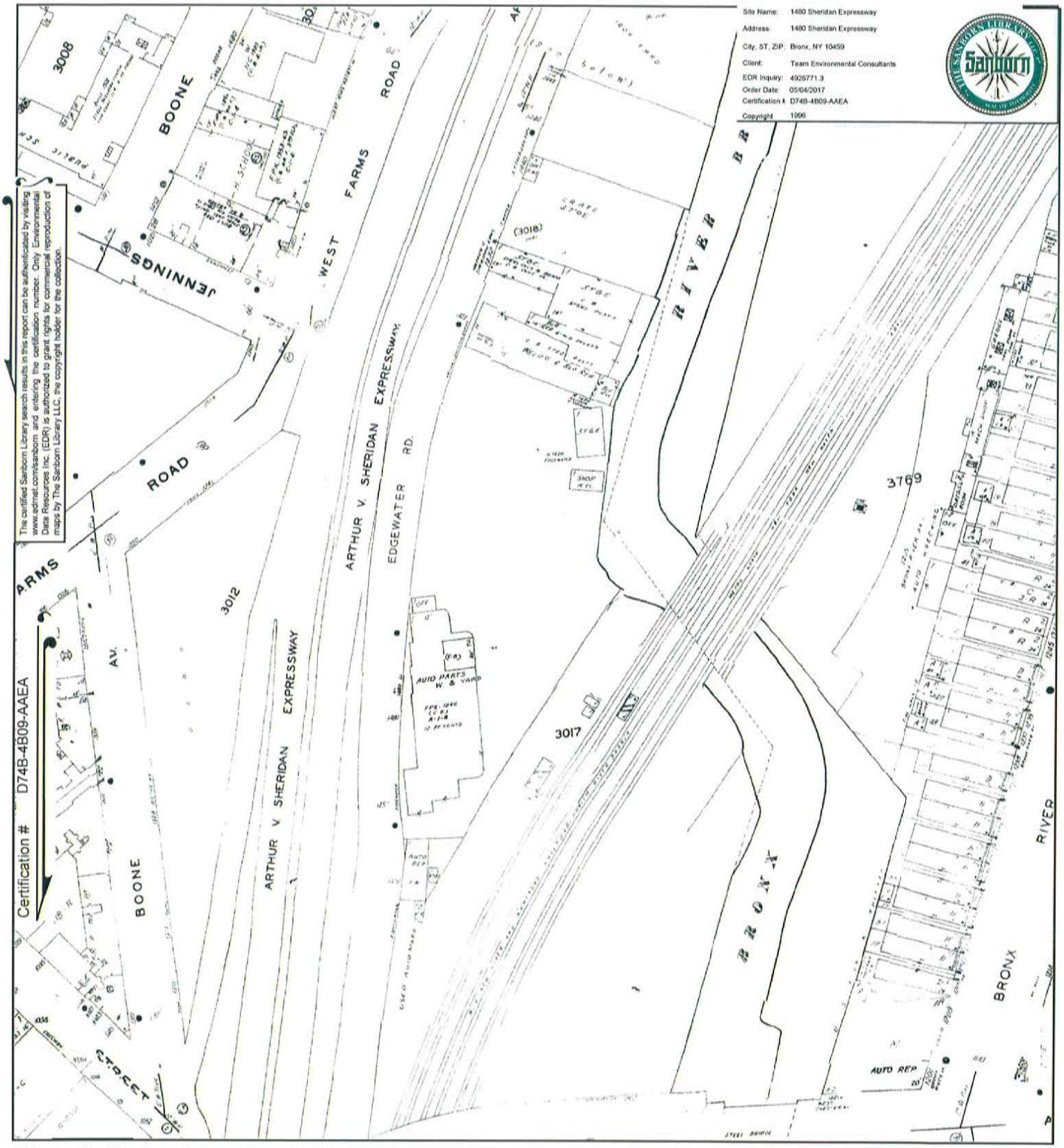


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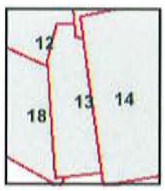
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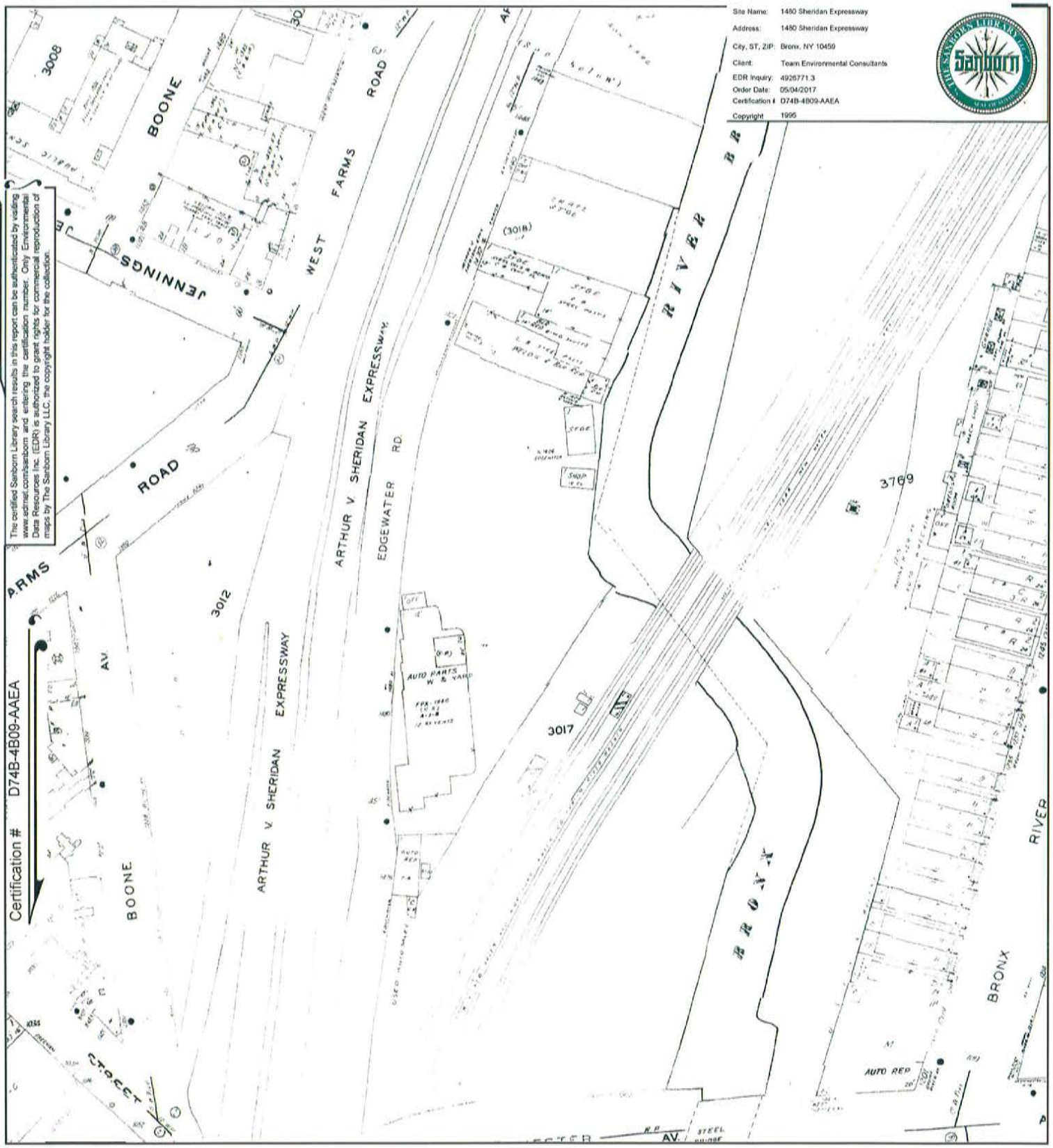
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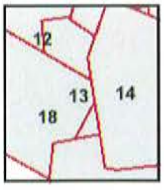
1995



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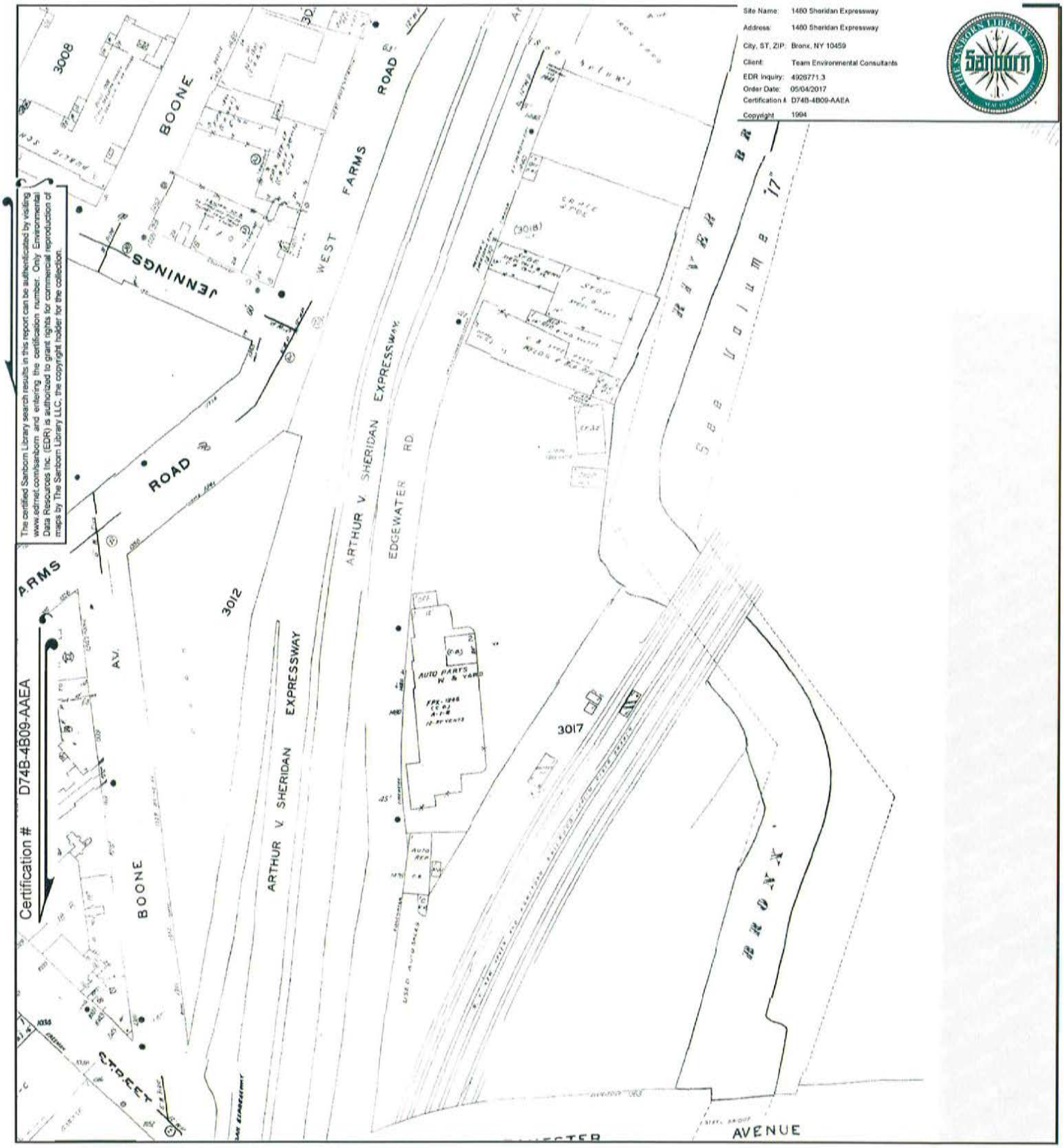
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Volume 17, Sheet 13

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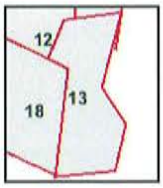
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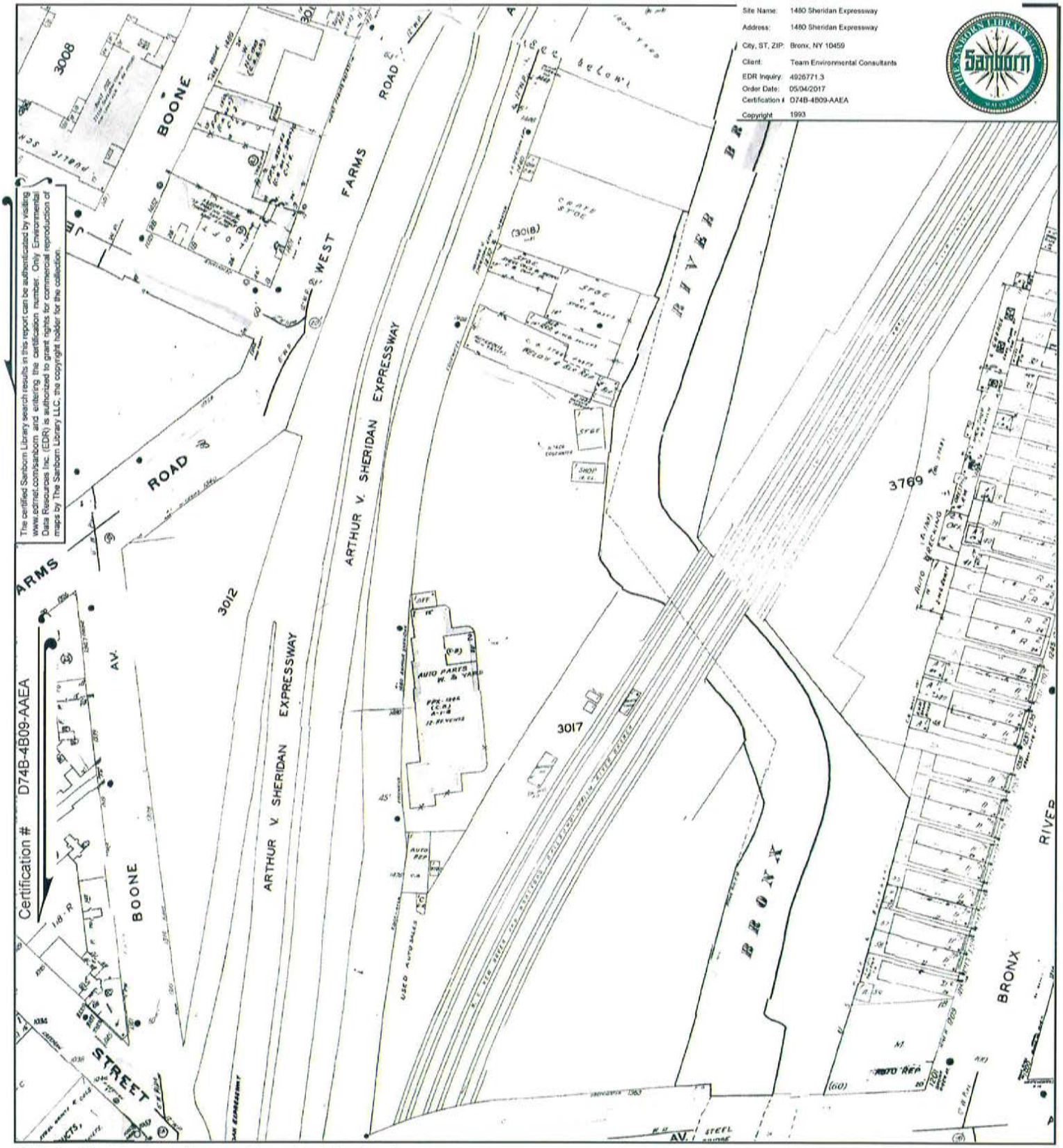


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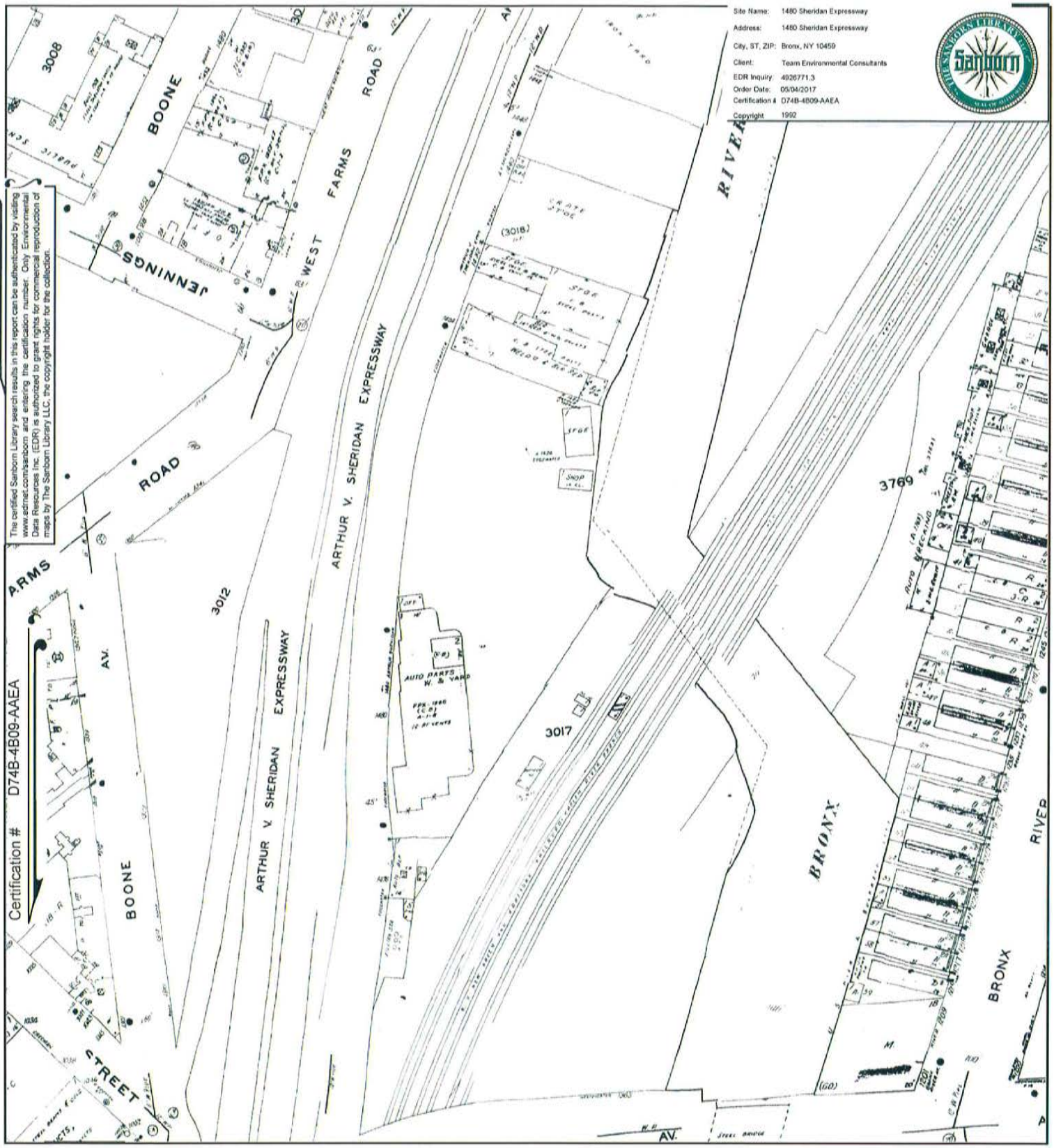
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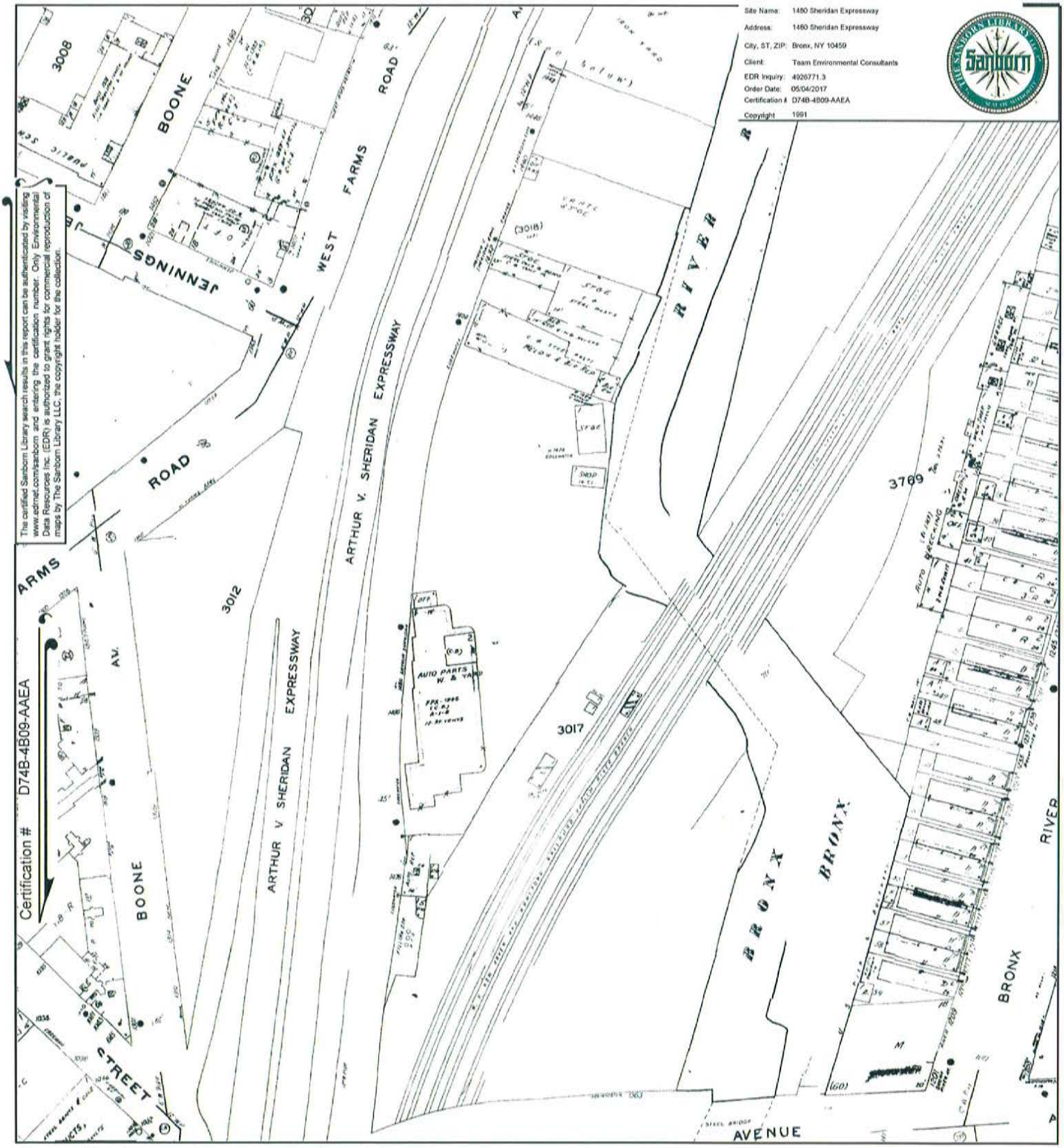
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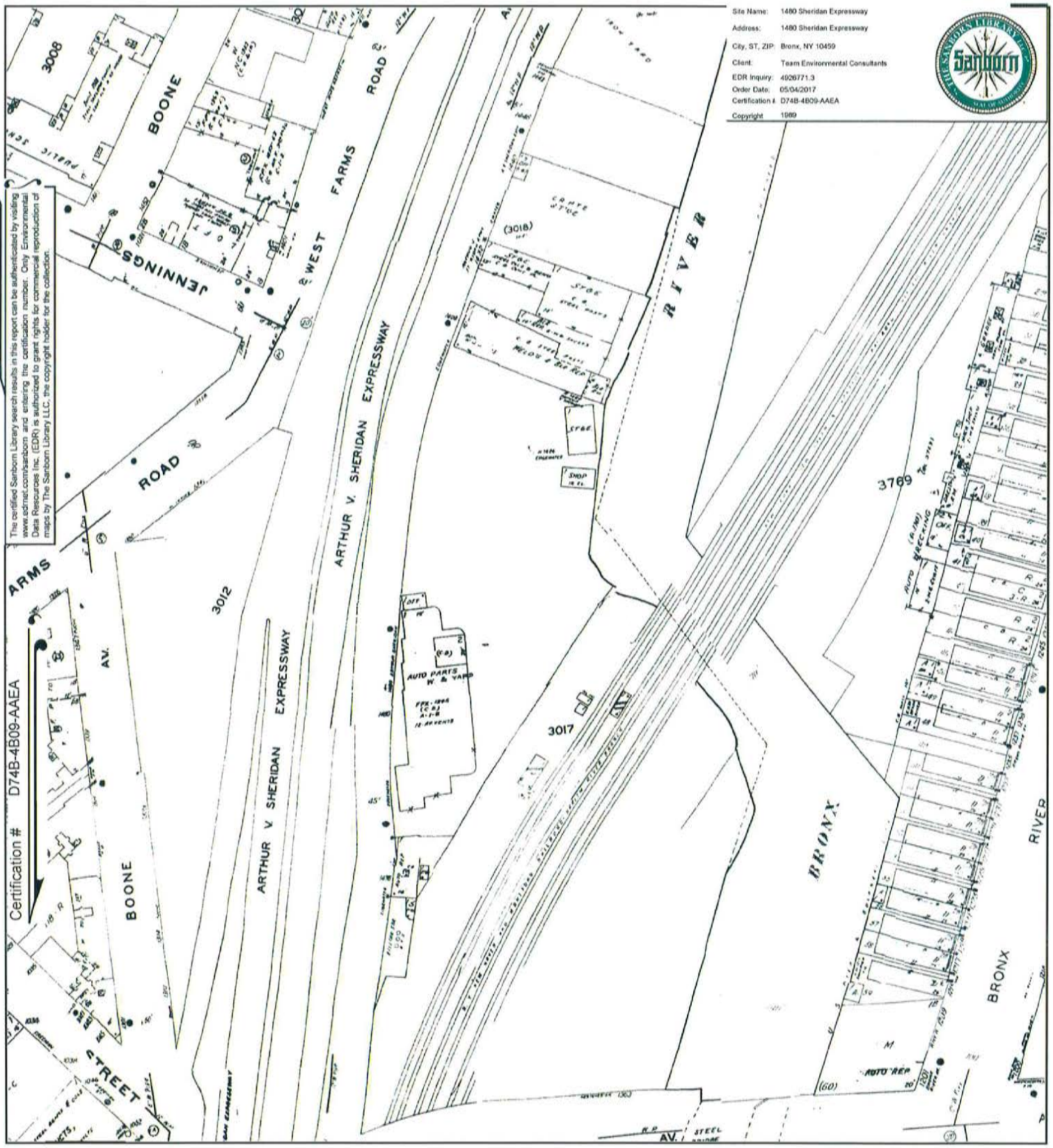


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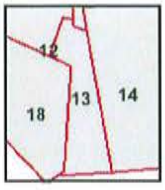
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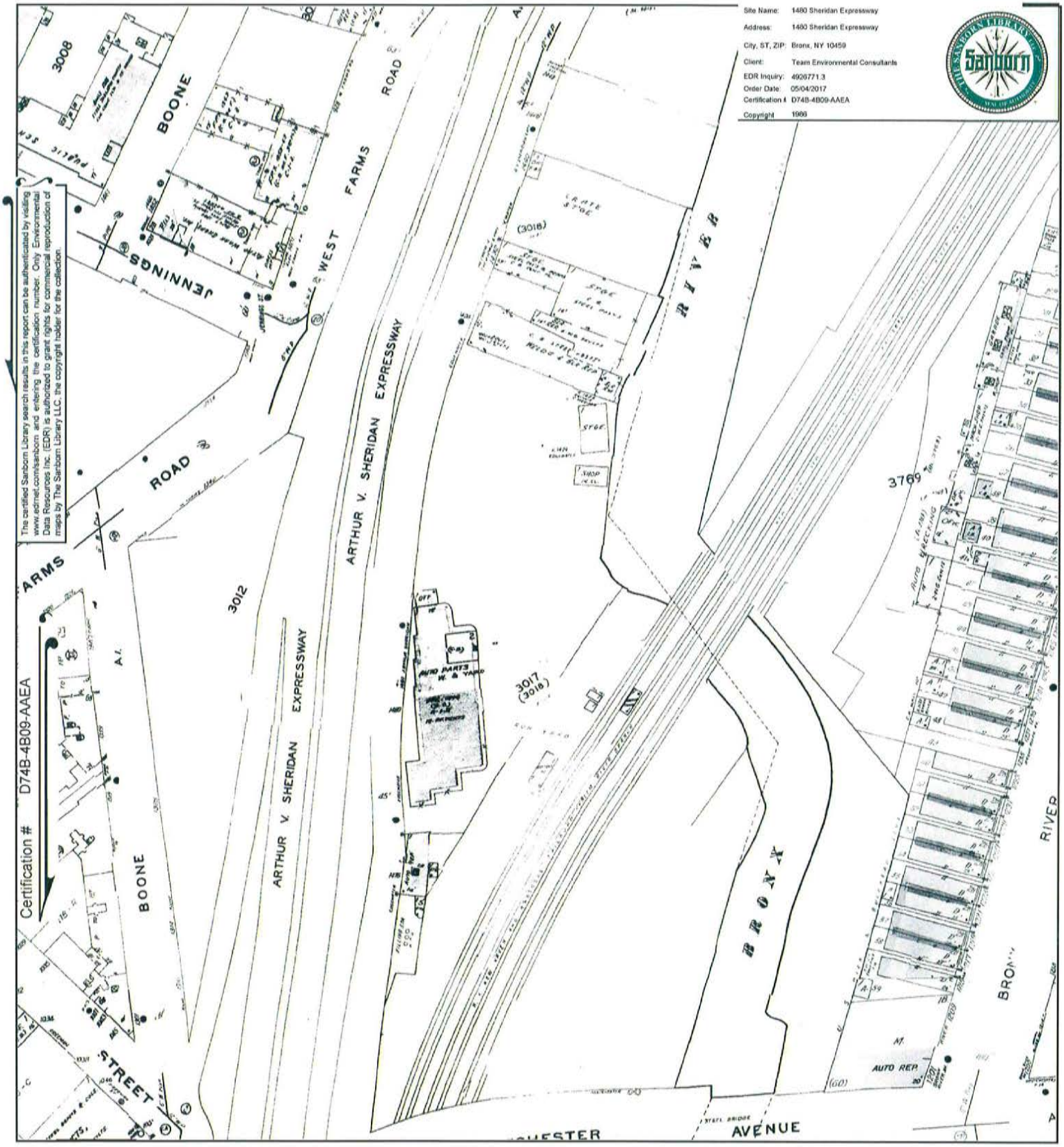


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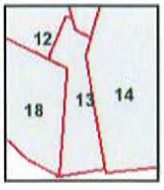
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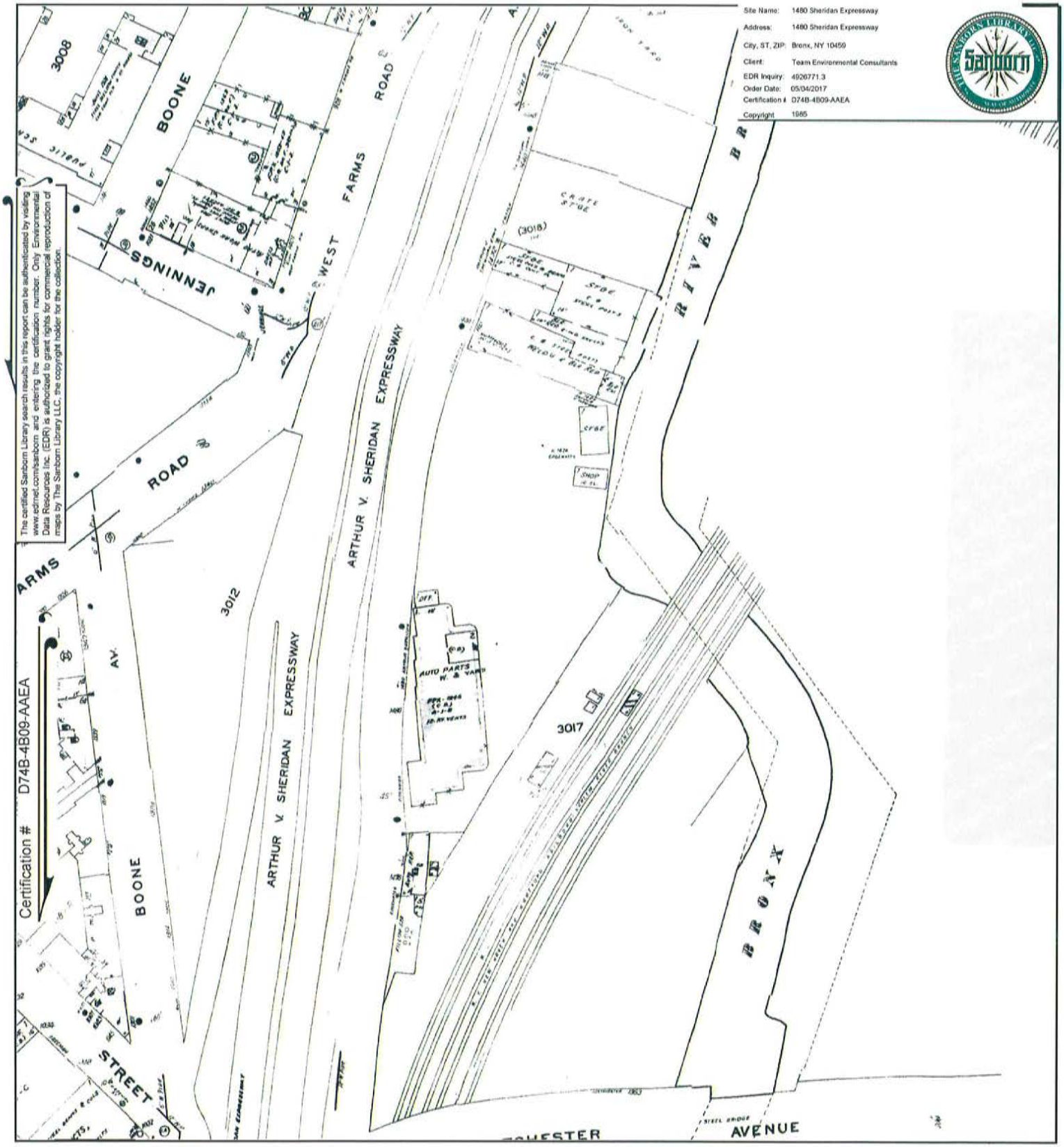
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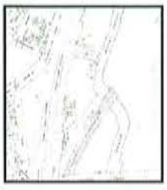
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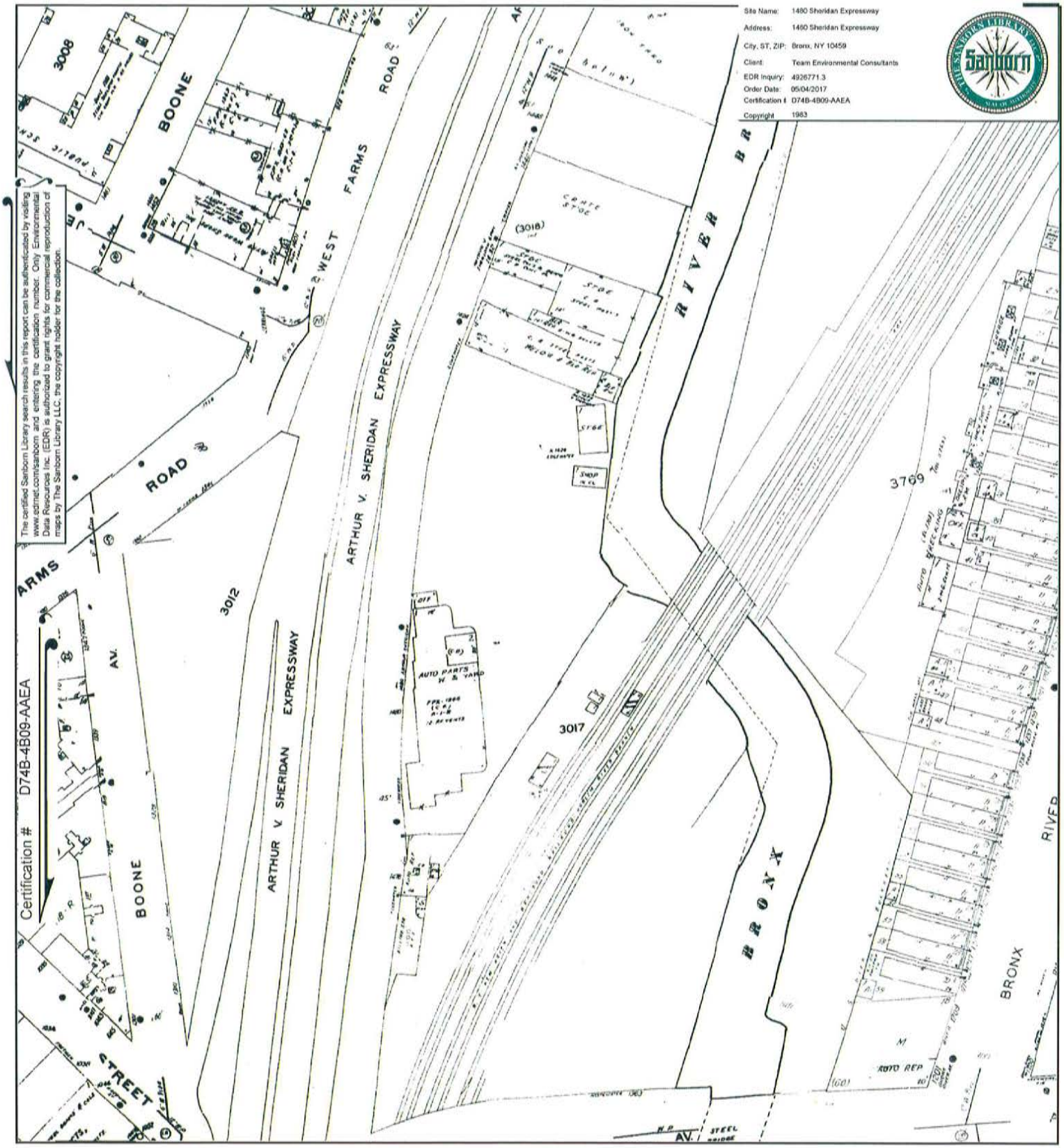


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1983



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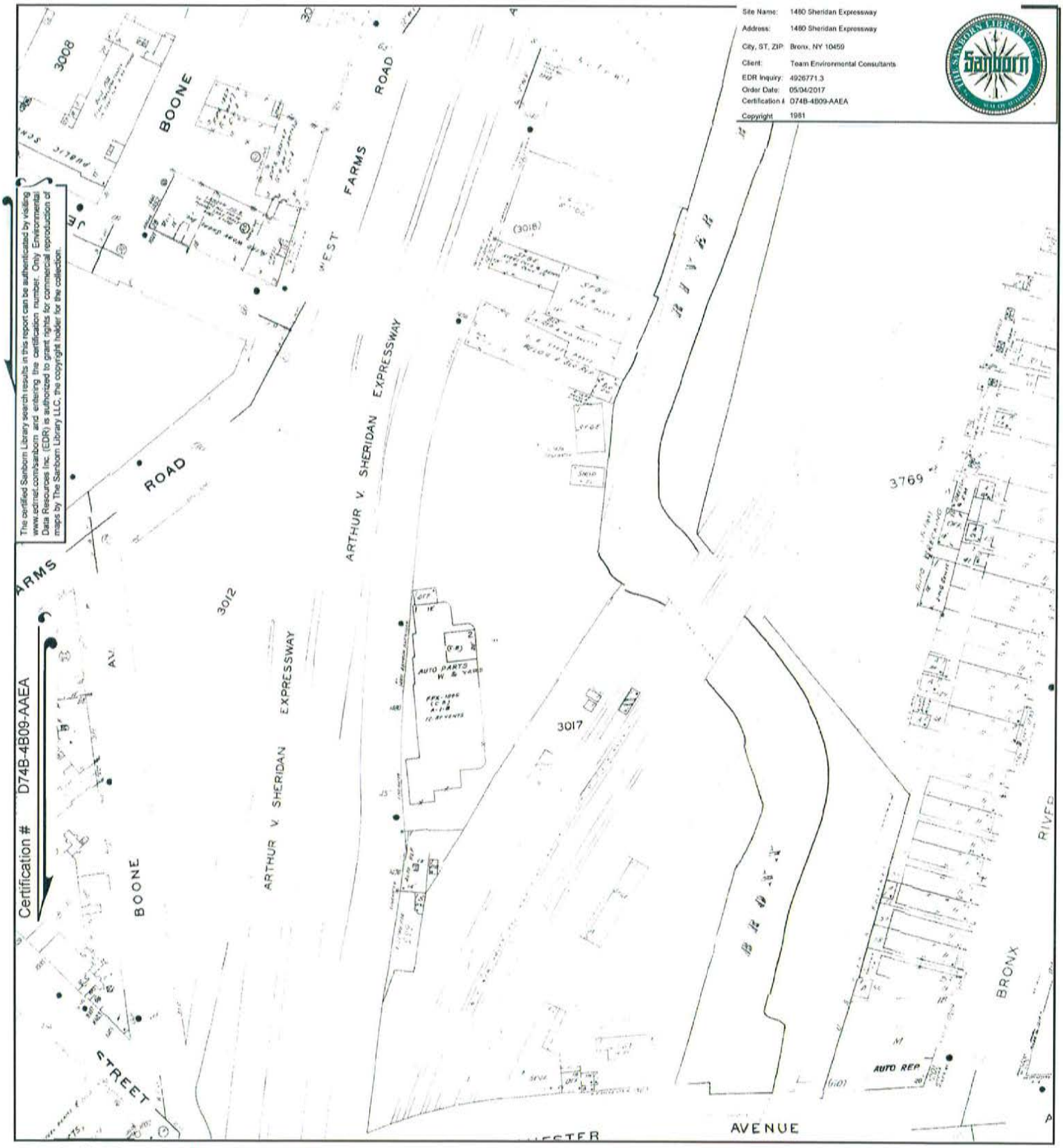
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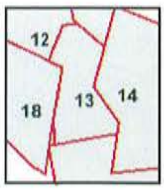
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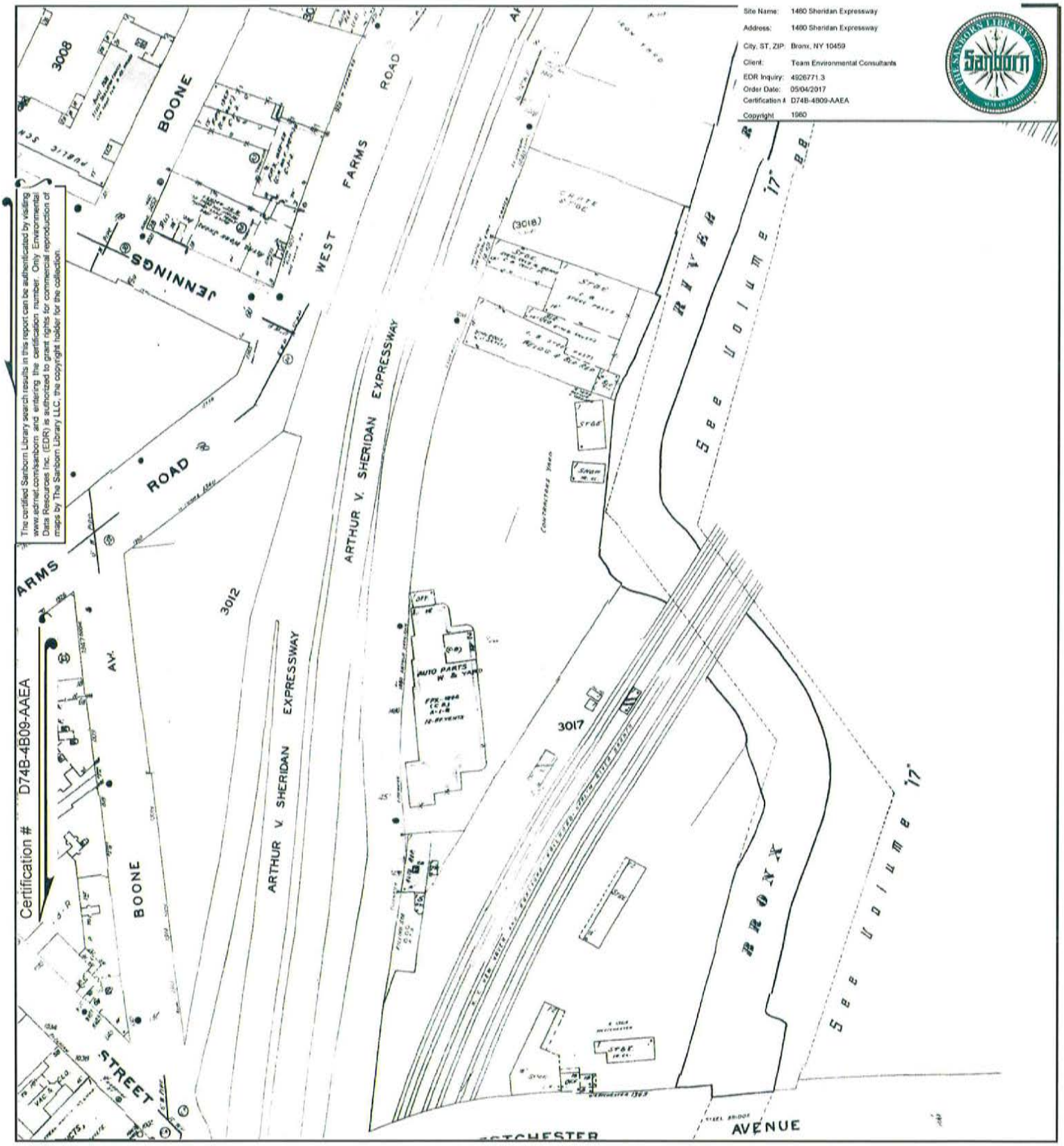
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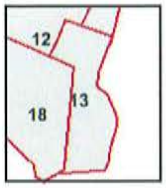
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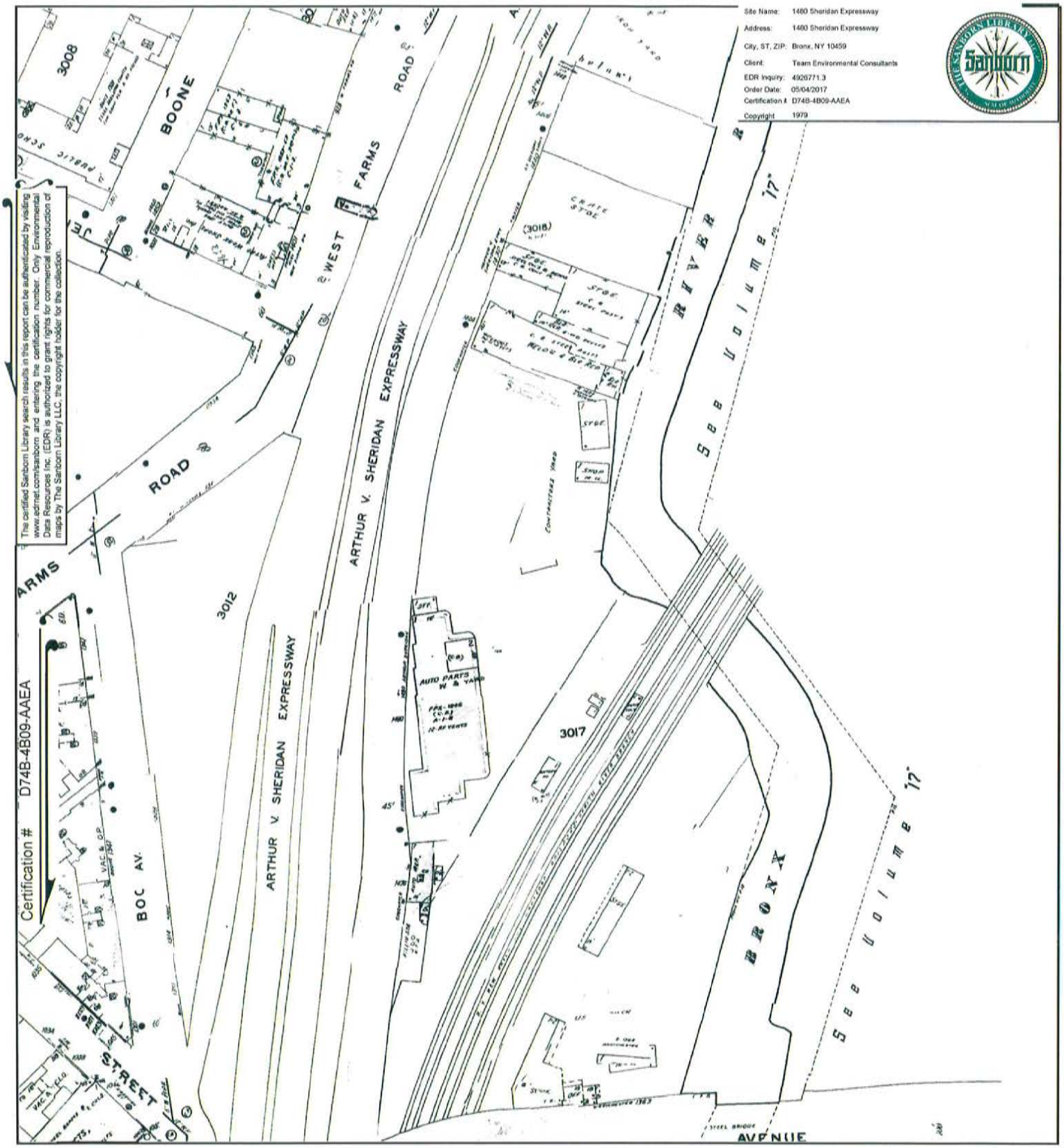


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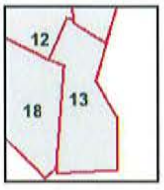
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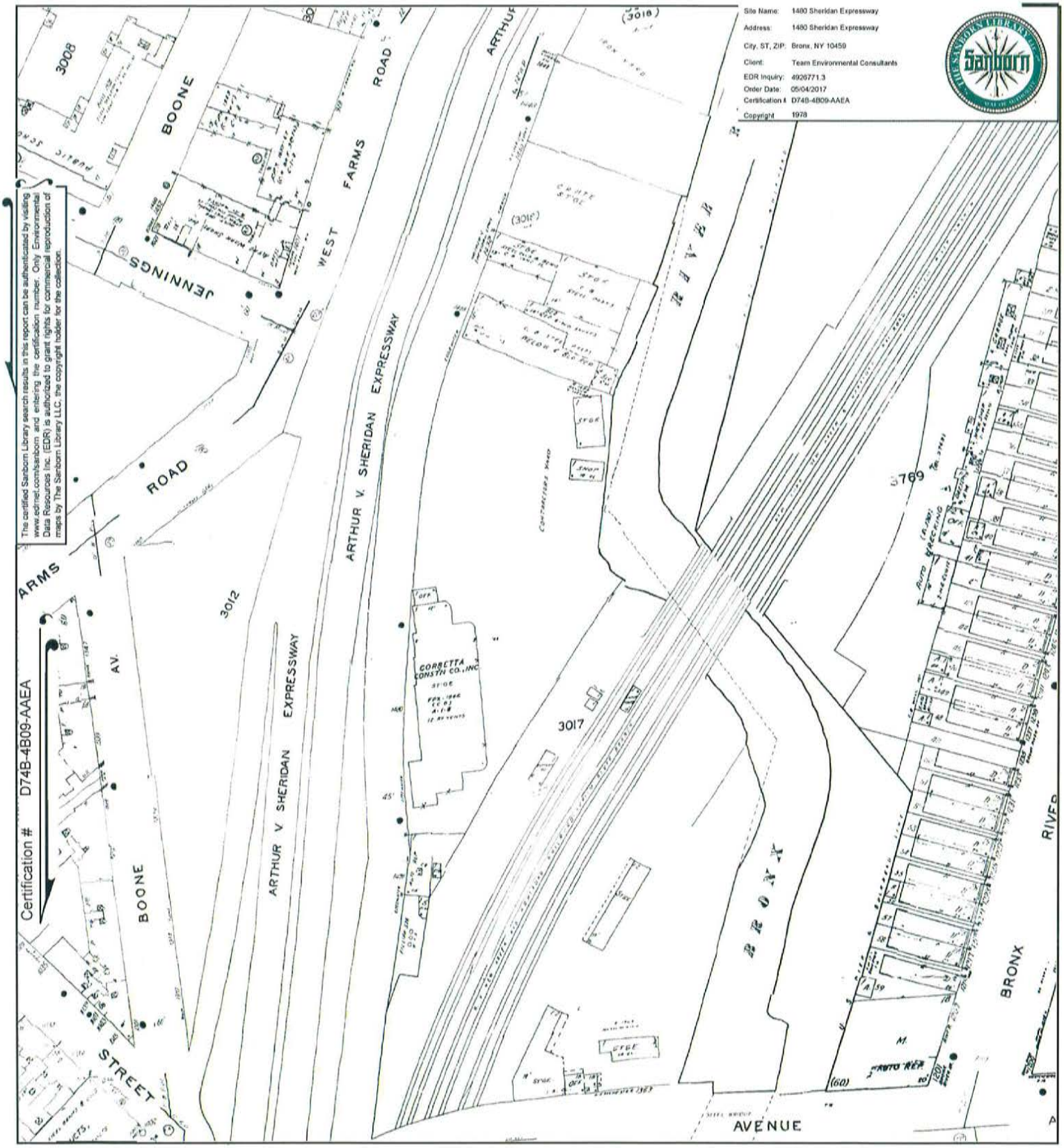


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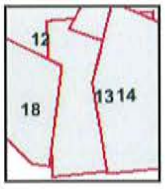
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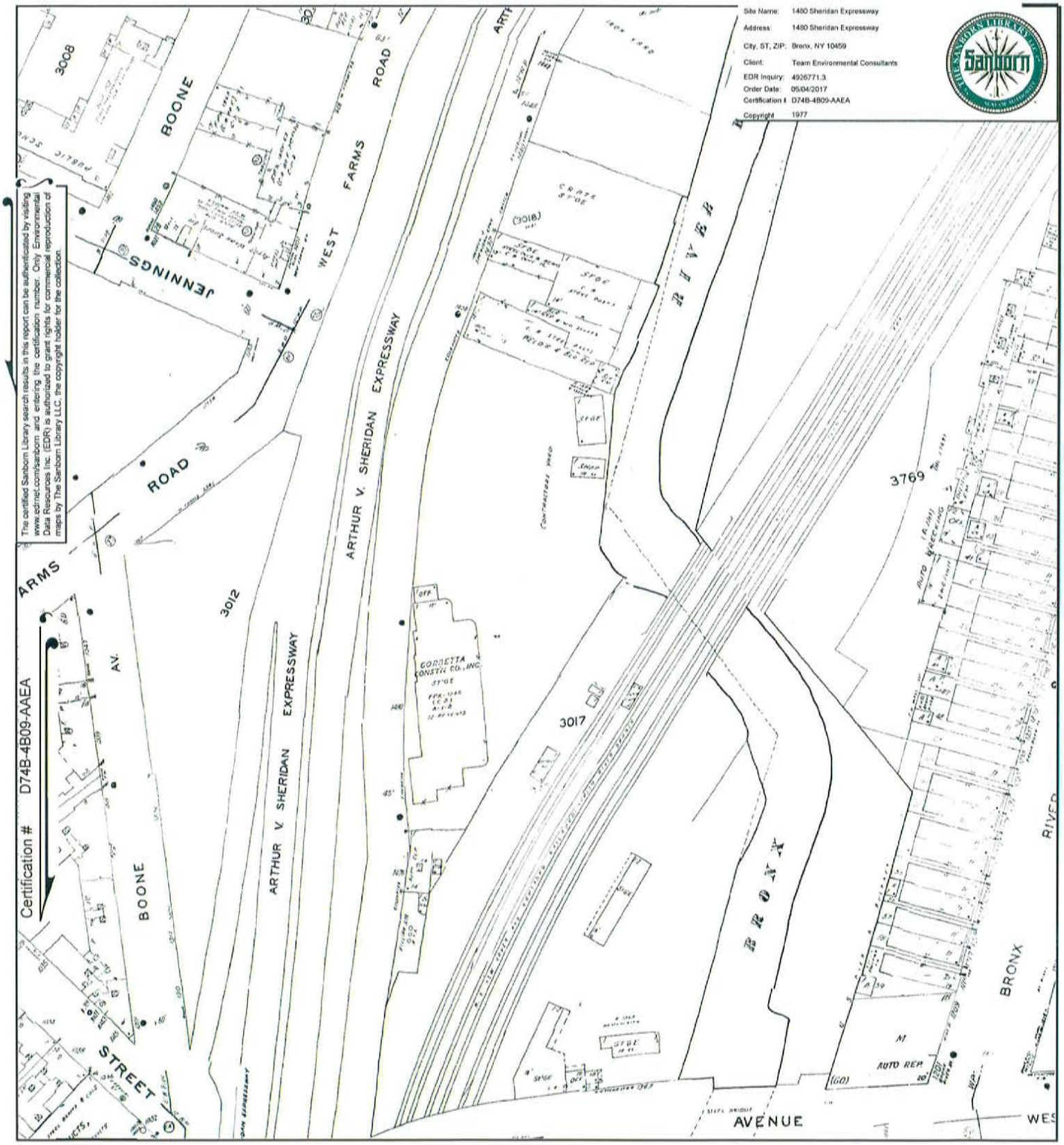


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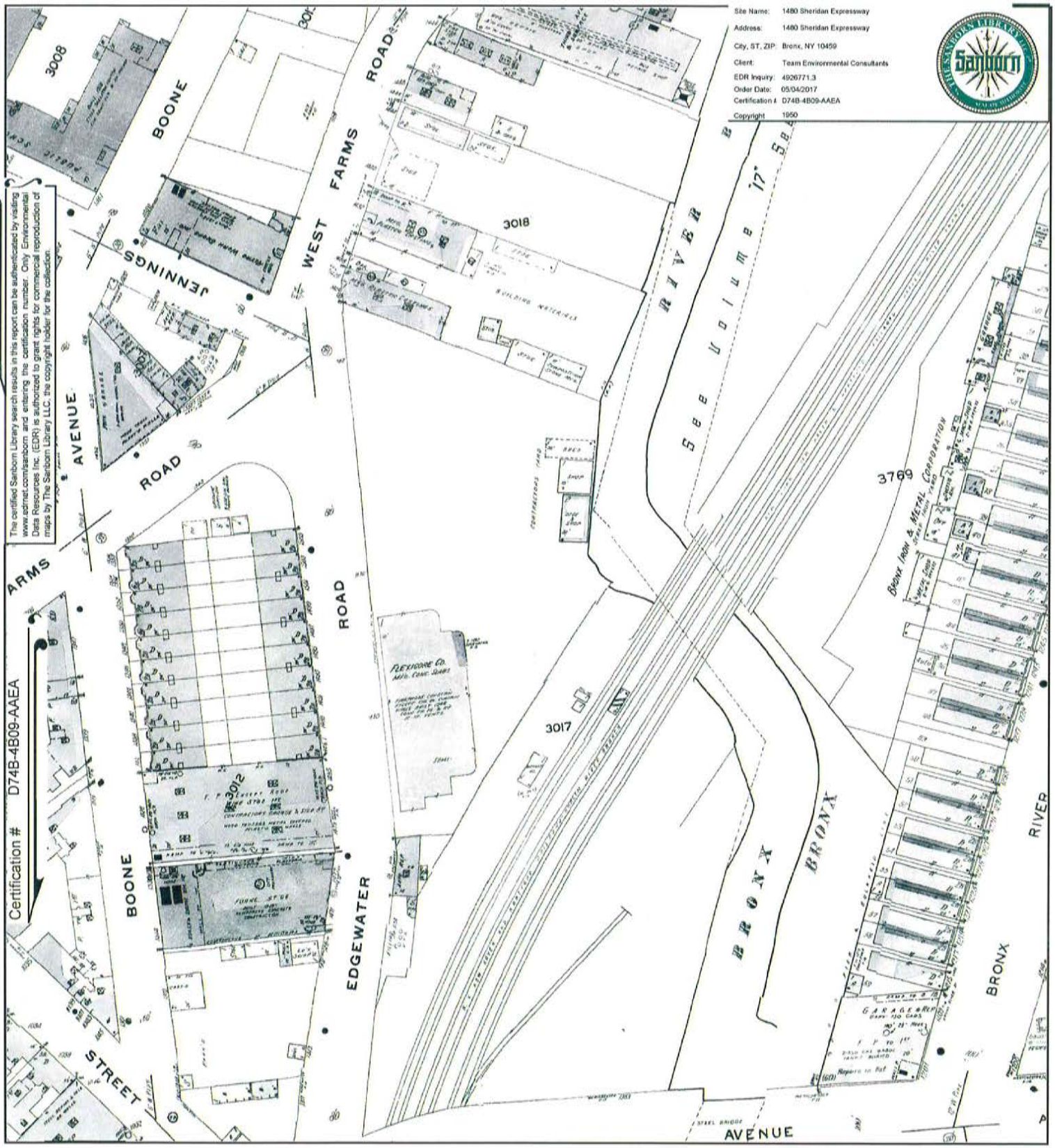


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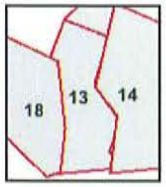
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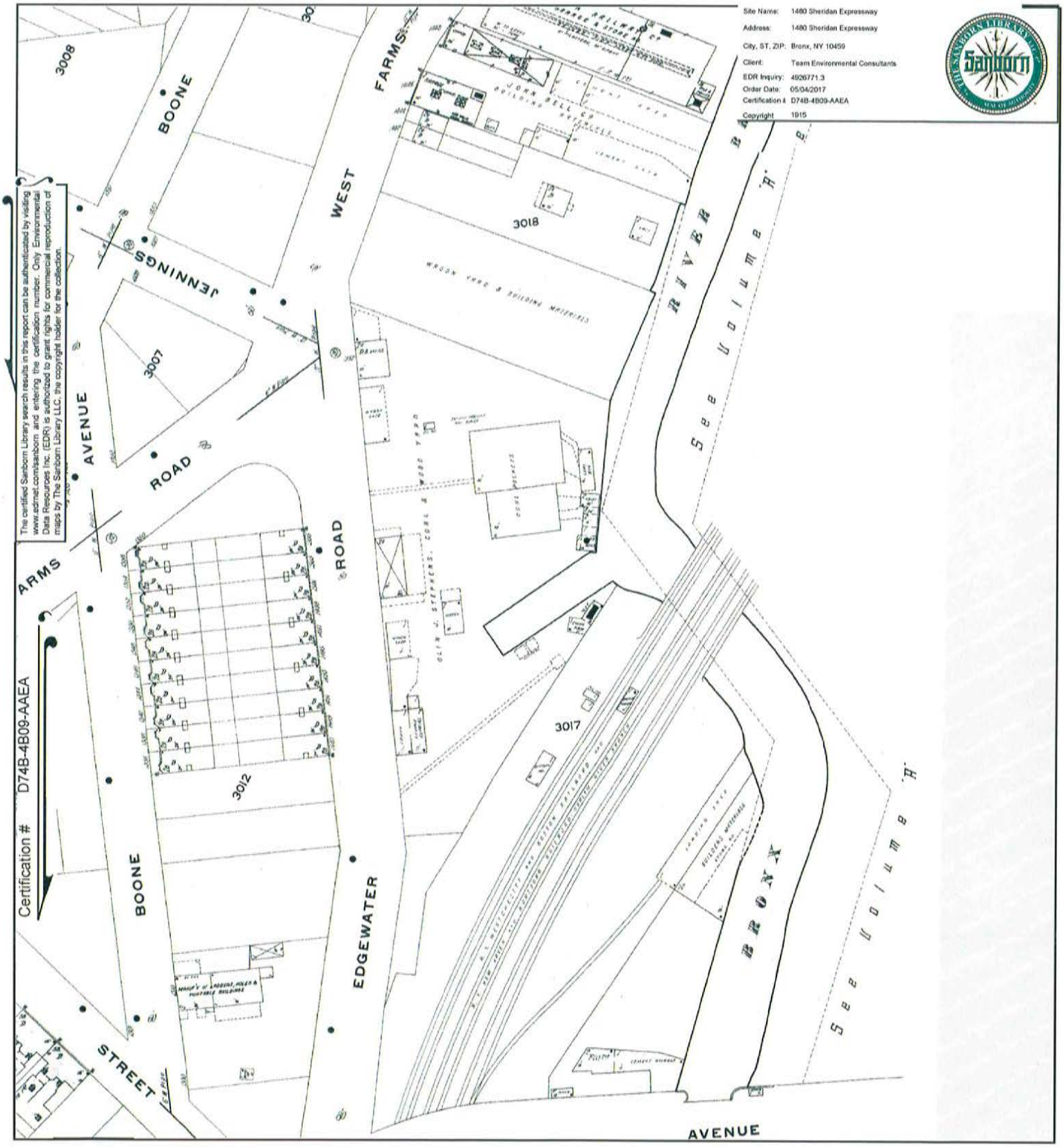


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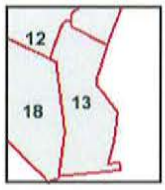
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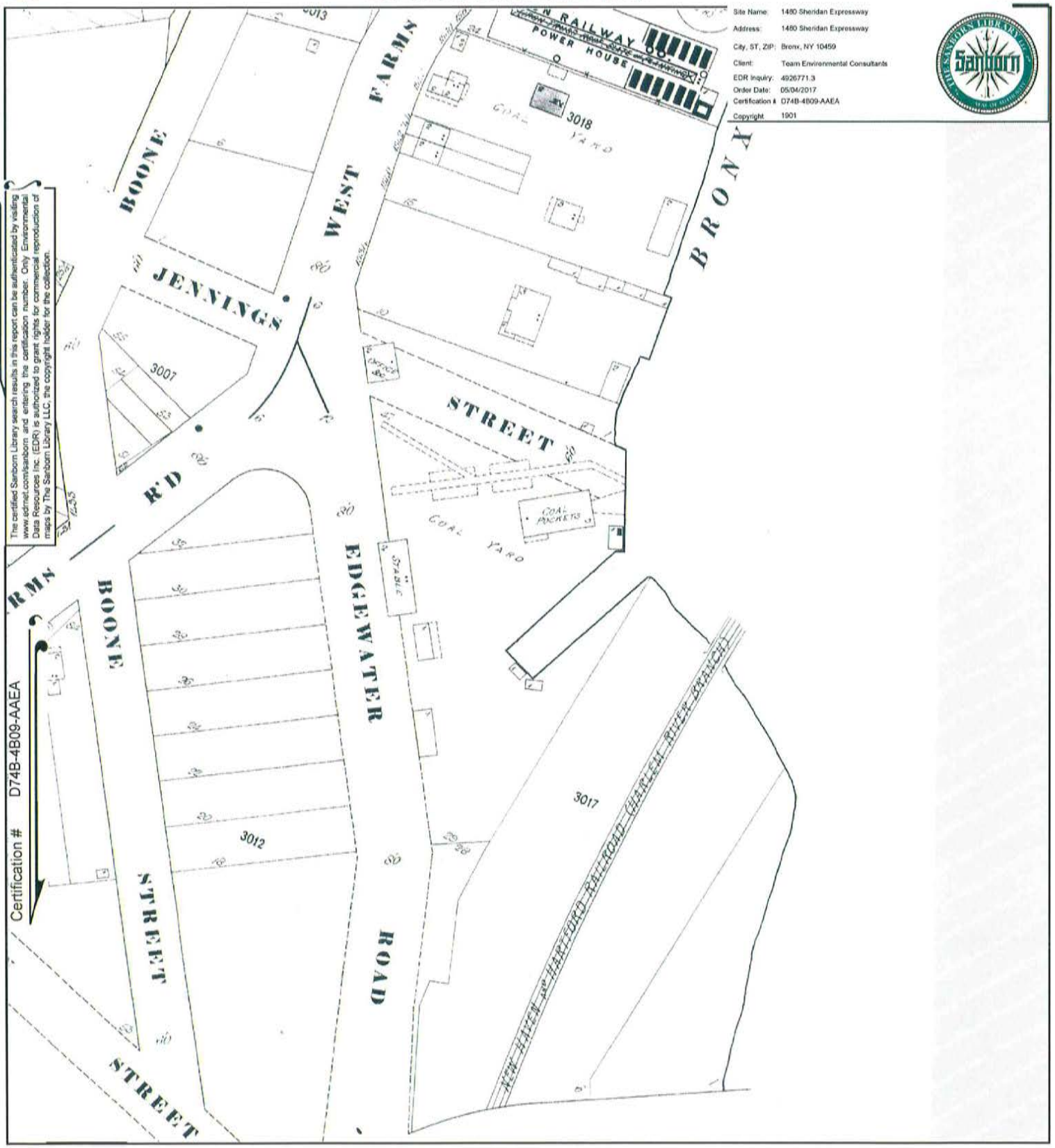
Volume 16, Sheet 18
Volume 16, Sheet 13
Volume 16, Sheet 12

0 Feet 150 300 600

N

Certified Sanborn® Map

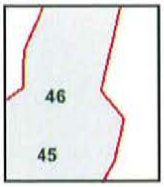
1901



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



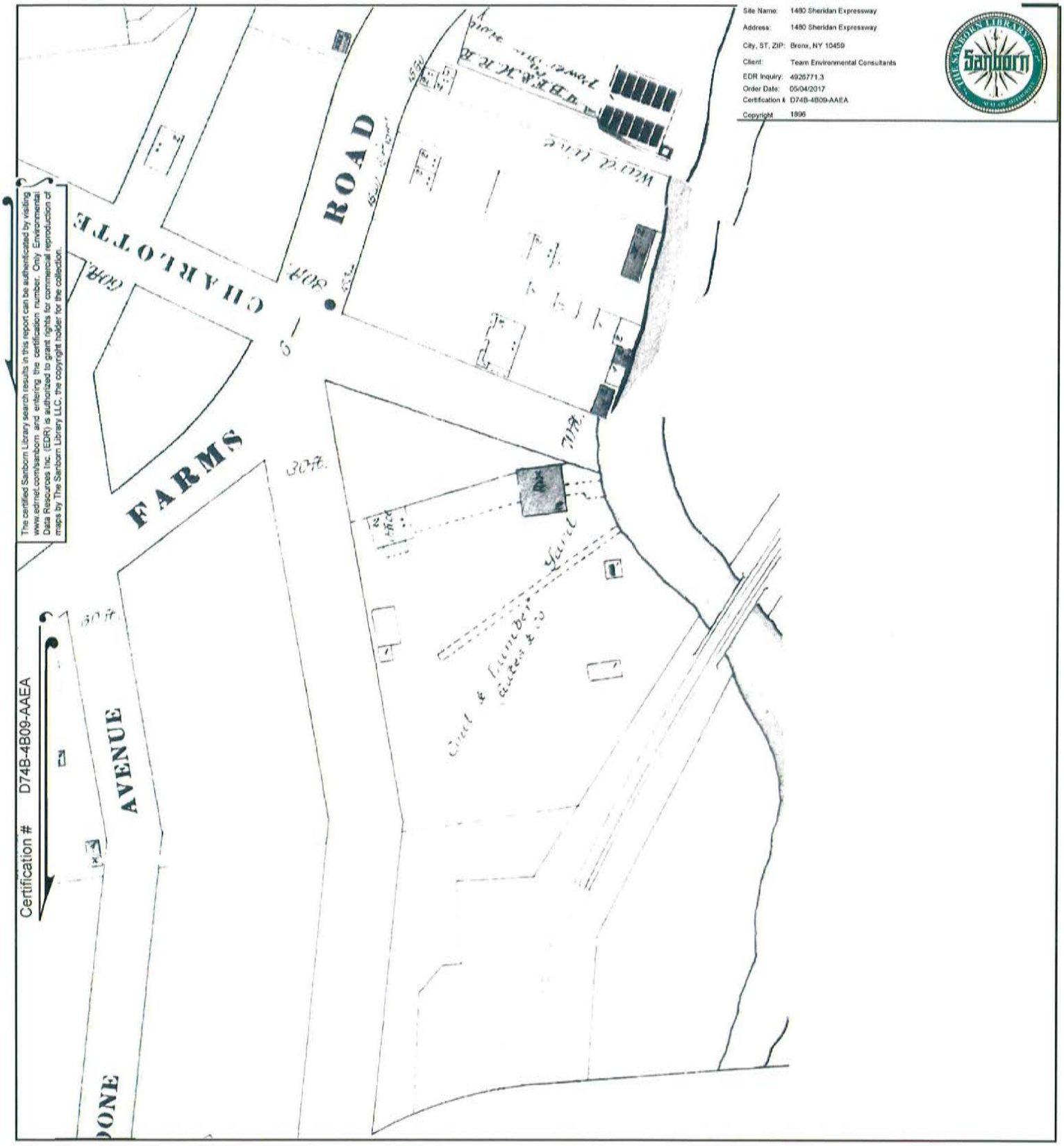


Volume 14, Sheet 46
Volume 14, Sheet 45

N

Certified Sanborn® Map

1896

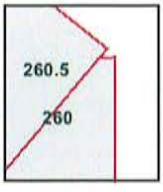


Site Name: 1480 Sheridan Expressway
Address: 1480 Sheridan Expressway
City, ST, ZIP: Bronx, NY 10459
Client: Team Environmental Consultants
EDR Inquiry: 4926771.3
Order Date: 05/04/2017
Certification #: D74B-4B09-AAEA
Copyright: 1896

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Outlined areas indicate map sheets within the collection.





Volume 12, Sheet 260.5
Volume 12, Sheet 260

0 Feet 150 300 600

N

ATTACHMENT D

CITY DIRECTORY ABSTRACT

1480 Sheridan Expressway
1480 Sheridan Expressway
Bronx, NY 10459

Inquiry Number: 4926771.5
May 04, 2017

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1927 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2010	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2005	Hill-Donnelly Information Services	X	X	X	-
2000	Cole Information Services	X	X	X	-
1993	New York Telephone	X	X	X	-
1983	New York Telephone	X	X	X	-
1976	New York Telephone Company	-	-	-	-
1971	New York Telephone	-	-	-	-
1965	New York Telephone Company	-	-	-	-
1961	New York Telephone	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1956	New York Telephone	-	-	-	-
1949	New York Telephone	-	-	-	-
1940	New York Telephone	-	-	-	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	-	-	-	-
1927	New York Telephone	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1480 Sheridan Expressway
Bronx, NY 10459

FINDINGS DETAIL

Target Property research detail.

Sheridan Expy

1480 Sheridan Expy

Year	*Uses*	*Source*
2014	LKQ CORPORATION	EDR Digital Archive
2010	LKQ CORPORATION	EDR Digital Archive
2005	LKQ Hunts Point Auto Parts	Hill-Donnelly Information Services
2000	HUNTS PT AT WRCKRE	Cole Information Services
	HUNTS PT AUTO PRTS	Cole Information Services
1993	HUNTS POINT AUTO PARTS	New York Telephone
	HUNTS POINT AUTO WRECKERS INC	New York Telephone
1983	HUNTS POINT AUTO WRECKERS INC	New York Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

SHERIDAN EXPY

1460 SHERIDAN EXPY

Year	Uses	Source
2005	Hunts Points Auto Wreckers Inc	Hill-Donnelly Information Services
2000	BELCO STEEL CORP	Cole Information Services
1993	BEICO STEEL CORP	New York Telephone
1983	BELCO STEEL CORP	New York Telephone

Sheridan Expy

1476 Sheridan Expy

Year	Uses	Source
2014	LEMA AND SONS CORPORATION	EDR Digital Archive
	ONYX AUTO SALES INC	EDR Digital Archive
	1476 AAA AUTOMOBILE INC	EDR Digital Archive
	T&L AUTO ELECTRIC INC	EDR Digital Archive
2010	GQ AUTOMOBILE REPAIR	EDR Digital Archive
	HARROD CONSTRUCION CORP	EDR Digital Archive
	GEYCO PLUMBING & HEATING INC	EDR Digital Archive
	1476 AAA AUTOMOBILE INC	EDR Digital Archive
	T&L AUTO ELECTRIC INC	EDR Digital Archive
	LEMA AND SONS CORPORATION	EDR Digital Archive
	ONYX AUTO SALES INC	EDR Digital Archive

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
1480 Sheridan Expressway	1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1460 SHERIDAN EXPY	2014, 2010, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1476 Sheridan Expy	2005, 2000, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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ATTACHMENT E

PHASE I ESA INTERVIEW AND INFORMATION SOURCES

ATTACHMENT E

PHASE I ESA INTERVIEW & INFORMATION SOURCES

PDJ SIMONE REALTY CO. PROPERTY

1480 SHERIDAN EXPRESSWAY, BRONX, NEW YORK 10459

Information Source	Affiliation	Phone Number
Al Nesheiwat	Sustainable Development, Inc.	914-220-2404
Mark Rubin	Simone Development Company, LLC	718-215-3000
Robert Rosario	Simone Development Company - Property Manager	914-490-9128
Jenny Brown	Simone Development Company, LLC	718-215-3061
Katrin Kraft	Environmental Data Resources	800-326-0847

ATTACHMENT F

FEDERAL & STATE DATABASE REPORT

1480 Sheridan Expressway
1480 Sheridan Expressway
Bronx, NY 10459

Inquiry Number: 4926771.2s
May 04, 2017

FirstSearch Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Search Summary Report

TARGET SITE **1480 SHERIDAN EXPRESSWAY**
BRONX, NY 10459

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	Y	0	0	0	0	-	0	0
NPL Delisted	Y	0	0	0	0	-	0	0
CERCLIS	Y	0	0	0	0	-	0	0
NFRAP	Y	0	0	0	-	-	0	0
RCRA COR ACT	Y	0	0	0	0	-	0	0
RCRA TSD	Y	0	0	0	-	-	0	0
RCRA GEN	Y	1	5	1	-	-	0	7
Federal IC / EC	Y	0	0	0	0	-	0	0
ERNS	Y	0	-	-	-	-	0	0
State/Tribal CERCLIS	Y	0	0	0	1	-	0	1
State/Tribal SWL	Y	1	0	1	0	-	0	2
State/Tribal LTANKS	Y	1	2	7	31	-	0	41
State/Tribal Tanks	Y	3	18	-	-	-	0	21
State/Tribal IC / EC	Y	0	-	-	-	-	0	0
State/Tribal VCP	Y	0	0	0	-	-	1	1
ST/Tribal Brownfields	Y	0	0	0	1	-	0	1
US Brownfields	Y	0	0	0	0	-	0	0
Other Haz Sites	Y	0	-	-	-	-	0	0
Other Tanks	Y	0	-	-	-	-	0	0
Spills	Y	0	26	-	-	-	0	26
Other	Y	4	9	3	-	-	0	16
	- Totals --	10	60	12	33	0	1	116

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Search Summary Report

TARGET SITE: **1480 SHERIDAN EXPRESSWAY**
BRONX, NY 10459

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	NPL	12/05/2016	0.500	0	0	0	0	-	0	0
	Proposed NPL	12/05/2016	0.500	0	0	0	0	-	0	0
NPL Delisted	Delisted NPL	12/05/2016	0.500	0	0	0	0	-	0	0
CERCLIS	SEMS	10/10/2016	0.500	0	0	0	0	-	0	0
NFRAP	SEMS-ARCHIVE	10/10/2016	0.250	0	0	0	-	-	0	0
RCRA COR ACT	CORRACTS	12/12/2016	0.500	0	0	0	0	-	0	0
RCRA TSD	RCRA-TSDF	12/12/2016	0.250	0	0	0	-	-	0	0
RCRA GEN	RCRA-LQG	12/12/2016	0.250	0	0	1	-	-	0	1
	RCRA-SQG	12/12/2016	0.250	0	3	0	-	-	0	3
	RCRA-CESQG	12/12/2016	0.125	1	2	-	-	-	0	3
Federal IC / EC	US ENG CONTROLS	11/15/2016	0.500	0	0	0	0	-	0	0
	US INST CONTROL	11/15/2016	0.500	0	0	0	0	-	0	0
ERNS	ERNS	09/26/2016	TP	0	-	-	-	-	0	0
State/Tribal CERCLIS	SHWS	11/14/2016	0.500	0	0	0	1	-	0	1
State/Tribal SWL	SWF/LF	01/04/2017	0.375	1	0	1	0	-	0	2
State/Tribal LTANKS	LTANKS	02/06/2017	0.500	1	2	7	31	-	0	41
	HIST LTANKS	01/01/2002	TP	0	-	-	-	-	0	0
State/Tribal Tanks	UST	12/28/2016	0.125	0	7	-	-	-	0	7
	CBS UST	01/01/2002	0.250	0	0	0	-	-	0	0
	MOSF UST	01/01/2002	0.500	0	0	0	0	-	0	0
	CBS	12/28/2016	0.250	1	1	0	-	-	0	2
	MOSF	12/28/2016	0.500	0	0	0	0	-	0	0
	AST	12/28/2016	0.125	1	10	-	-	-	0	11
	CBS AST	01/01/2002	0.250	1	0	0	-	-	0	1
	MOSF AST	01/01/2002	0.500	0	0	0	0	-	0	0
	TANKS	12/28/2016	TP	0	-	-	-	-	0	0
State/Tribal IC / EC	RES DECL	11/18/2010	TP	0	-	-	-	-	0	0

Search Summary Report

TARGET SITE: **1480 SHERIDAN EXPRESSWAY**
BRONX, NY 10459

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
	ENG CONTROLS	11/14/2016	0.500	0	0	0	0	-	0	0
	INST CONTROL	11/14/2016	0.375	0	0	0	0	-	0	0
State/Tribal VCP	VCP	11/14/2016	0.250	0	0	0	-	-	1	1
ST/Tribal Brownfields	BROWNFIELDS	11/14/2016	0.500	0	0	0	1	-	0	1
	ERP	11/14/2016	0.250	0	0	0	-	-	0	0
US Brownfields	US BROWNFIELDS	03/02/2017	0.500	0	0	0	0	-	0	0
Other Haz Sites	US CDL	09/30/2016	TP	0	-	-	-	-	0	0
Other Tanks	HIST UST	01/01/2002	TP	0	-	-	-	-	0	0
	HIST AST	01/01/2002	TP	0	-	-	-	-	0	0
Spills	HMIRS	12/28/2016	TP	0	-	-	-	-	0	0
	NY Spills	02/06/2017	0.125	0	26	-	-	-	0	26
	NY Hist Spills	01/01/2002	TP	0	-	-	-	-	0	0
	SPILLS 90	12/14/2012	TP	0	-	-	-	-	0	0
	SPILLS 80	11/02/2010	TP	0	-	-	-	-	0	0
Other	RCRA NonGen / NLR	12/12/2016	0.125	0	8	-	-	-	0	8
	TSCA	12/31/2012	TP	0	-	-	-	-	0	0
	TRIS	12/31/2014	TP	0	-	-	-	-	0	0
	SSTS	12/31/2009	TP	0	-	-	-	-	0	0
	RAATS	04/17/1995	TP	0	-	-	-	-	0	0
	PRP	10/25/2013	TP	0	-	-	-	-	0	0
	PADS	01/20/2016	TP	0	-	-	-	-	0	0
	ICIS	11/18/2016	TP	0	-	-	-	-	0	0
	FTTS	04/09/2009	TP	0	-	-	-	-	0	0
	MLTS	08/30/2016	TP	0	-	-	-	-	0	0
	RADINFO	01/04/2017	TP	0	-	-	-	-	0	0
	INDIAN RESERV	12/31/2014	TP	0	-	-	-	-	0	0
	US AIRS	10/12/2016	TP	1	-	-	-	-	0	1
	FINDS	07/15/2016	TP	1	-	-	-	-	0	1
	DRYCLEANERS	10/27/2016	0.250	0	0	3	-	-	0	3
	HSWDS	01/01/2003	0.250	0	0	0	-	-	0	0
	MANIFEST	01/30/2017	TP	1	-	-	-	-	0	1
	SPDES	01/30/2017	0.250	1	1	0	-	-	0	2
	- Totals --			10	60	12	33	0	1	116

Site Information Report

Request Date: MAY 4, 2017
Request Name: MARTIN WODKA
Search Type: COORD
Job Number: NA

Target Site: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)	UTMs	
Longitude:	73.884697	73.8846970 - 73° 53' 4.90''	Easting:	594042.8
Latitude:	40.829899	40.8298990 - 40° 49' 47.63''	Northing:	4520261.5
Elevation:	11 ft. above sea level		Zone:	Zone 18

Demographics

Sites: 115 **Non-Geocoded:** 1 **Population:** N/A

RADON

Federal EPA Radon Zone for BRONX County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for BRONX COUNTY, NY

Number of sites tested: 31

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	96%	4%	0%
Basement	1.110 pCi/L	42%	58%	0%

Target Site Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
A1	AST --2-233366	LKQ HUNTS POINT AUTO PARTS COR	1480 SHERIDAN EXPRESSWAY BRONX, NY 10459	0.00	+ 0	1
A2	FINDS --110009001793	LKQ HUNTS POINT AUTO PARTS	1480 SHERIDAN EXPRESSWAY BRONX, NY 10459	0.00	+ 0	7
A2	US AIRS --110009001793	LKQ HUNTS POINT AUTO PARTS	1480 SHERIDAN EXPRESSWAY BRONX, NY 10459	0.00	+ 0	8
A3	CBS AST --IN SERVICE --1 --2-000383	LKQ HUNTS POINT AUTO PARTS COR	1480 SHERIDAN EXPRESSWAY BRONX, NY 10459	0.00	+ 0	9
A4	SPDES --NYR00B428 --A	LKQ HUNTS POINT AUTO PARTS COR	1480 SHERIDAN EXPRESSWAY BRONX, NY 10459	0.00	+ 0	11
A4	CBS --Unregulated/Closed --2-000383	LKQ HUNTS POINT AUTO PARTS COR	1480 SHERIDAN EXPRESSWAY BRONX, NY 10459	0.00	+ 0	13
A4	SWF/LF	LKQ HUNTS POINT AUTO PARTS COR	1480 SHERIDAN EXPRESSWAY BRONX, NY 10459	0.00	+ 0	14
A5	MANIFEST --NYD083059899	HUNTS POINT AUTO WRECKERS	1480 SHERIDAN EXPWY BRONX, NY 10473	0.00	+ 0	15
A5	LTANKS --9702732 / 2005-11-28 --83758 --9702732	HUNTS POINT AUTO WRECKERS	1480 SHERIDAN EXPWY BRONX, NY 10473	0.00	+ 0	17
A5	RCRA-CESQG --NYD083059899	HUNTS POINT AUTO WRECKERS	1480 SHERIDAN EXPWY BRONX, NY 10473	0.00	+ 0	19

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
B6	UST	MARINE BOILER & WELDING INC	1428 SHERIDAN EXPRESSWAY BRONX, NY 10459	0.00 SSW	+ 8	22
B7	AST --2-611774	SHERIDAN AUTO REPAIRS INC.	1476 SHERIDAN EXPRESSWAY BRONX, NY 10459	0.02 SSW	+ 7	26
8	NY Spills --9800775 / 2003-02-12 --9800775 --306169	BRONX RIVER	EAST 172ND ST/WESTCHESTER BRONX, NY	0.02 ENE	- 3	29
C9	AST --2-610205	NONE	1040 - 1052 EDGEWATER ROA BRONX, NY 10459	0.07 SSW	+ 26	31
D10	RCRA NonGen / NLR --NYP004163549	CON EDISON	1243 BRONX RIVER AVE BRONX, NY 10452	0.07 East	+ 10	39
E11	NY Spills --0008407 / 2005-05-03 --0008407 --325485	BRONX RIVER	WESTCHESTER AVE BRONX, NY	0.07 SSE	- 10	40
D12	SPDES --NYR00E133 --A	APEX SALES, TOWING & LEASING,	1235 BRONX RIVER AVE. BRONX, NY 10472	0.07 ESE	+ 9	42
D12	NY Spills --0605983 / 2006-08-29 --0605983 --369262	APEX SALES, TOWING & LEASING,	1235 BRONX RIVER AVE. BRONX, NY 10472	0.07 ESE	+ 9	44
D12	CBS --Unregulated/Closed --2-000425	APEX SALES, TOWING & LEASING,	1235 BRONX RIVER AVE. BRONX, NY 10472	0.07 ESE	+ 9	47
D13	AST --2-610044	APEX SALES, TOWING & LEASING,	1235 BRONX RIVER AVENUE BRONX, NY 10472	0.07 ESE	+ 9	48
14	AST --2-611085	LKQ HUNTS POINT AUTO PARTS	1460 SHERIDAN EXPRESSWAY BRONX, NY 10459	0.07 NNE	- 1	51

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
F15	UST	J & L AUTO SEV	1471 W FARMS RD NEW YORK, NY 10460	0.08 NNW	+ 15	57
F16	NY Spills --9913455 / 2003-07-10 --9913455 --298823	J & A SERVICE - CLOSED	1471 W FARMS RD BRONX, NY 10460	0.08 NNW	+ 15	63
F16	RCRA-CESQG --NYR000115212	J & A SERVICE - CLOSED	1471 W FARMS RD BRONX, NY 10460	0.08 NNW	+ 15	65
E17	RCRA NonGen / NLR --NY0000204529	NYCDOT	WESTCHESTER AVE OVER BRONX, NY 10459	0.08 SSE	- 11	67
F18	NY Spills --0300164 / 2003-09-08 --0300164 --85601	ABANDONED SERVICE STATION	1471 WEST FARM RD BRONX, NY	0.08 NNW	+ 18	69
D19	NY Spills --0913981 / 2009-01-27 --0913981 --432904	215315; 1243 BRONX RIVER AVENU	1243 BRONX RIVER AVENUE NEW YORK, NY	0.09 East	+ 11	71
C20	NY Spills --0506235 / 2005-08-22 --0506235 --351408	BRONX RIVER	WESTCHESTER AVE/EDGEWATER BRONX, NY	0.09 SSW	+ 26	73
D21	AST --2-467359	1405 COLGATE AVENUE	1405 COLGATE AVENUE BRONX, NY 10472	0.09 East	+ 13	75
C22	NY Spills --0507685 / 2007-05-03 --0507685 --353141	VAULT 1744	EDGEWATER RD AND WESTCHES BRONX, NY	0.09 SSW	+ 26	78
23	RCRA-CESQG --NYR000151274	NYCHA - WEST FARMS ROAD REHAB	1323 W FARMS RD BRONX, NY 10455	0.09 West	+ 24	80
C24	NY Spills --9611127 / 1998-06-03 --9611127 --163422	SHERATON EXPRESSWAY	SERVICE RD&WESTCHESTER AV BRONX, NY	0.09 SSW	+ 9	82

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
C25	NY Spills --0700426 / 2007-04-13 --0700426 --379768	WESTCHESTER OFF RAMP	SHERIDAN EXPRESSWAY BRONX, NY	0.09 SSW	+ 9	84
G26	AST --2-612337	SHERIDAN GARAGE CORP.	1040 FREEMAN STREET BRONX, NY 10459	0.09 SW	+ 26	86
H27	RCRA-SQG --NYD001345529	LETTERA SIGN & ELECTRIC CO INC	1209 BRONX RIVER AVE BRONX, NY 10472	0.09 SE	+ 9	89
28	UST	WEST FARMS ESTATES	1310 WEST FARMS ROAD BRONX, NY 10459	0.10 West	+ 26	92
29	NY Spills --0302597 / 2006-04-10 --0302597 --207170	AMBUTRANS HOLDING CORP.	1028 FREEMAN STREET BRONX, NY 10459	0.10 WSW	+ 35	95
29	UST	AMBUTRANS HOLDING CORP.	1028 FREEMAN STREET BRONX, NY 10459	0.10 WSW	+ 35	97
I30	RCRA-SQG --NY0000375709	NYCSCA - PUBLIC SCHOOL 66	1001 JENNINGS ST BRONX, NY 10460	0.10 NW	+ 27	100
I31	AST --2-604868	PUBLIC SCHOOL 66 - BRONX (X066	1001 JENNINGS STREET BRONX, NY 10460	0.10 NW	+ 27	103
G32	NY Spills --9601923 / 1996-05-09 --9601923 --60333	FBHC	1 WEST FARMS ROAD BRONX, NY 10460	0.11 SW	+ 28	106
G32	UST	FBHC	1 WEST FARMS ROAD BRONX, NY 10460	0.11 SW	+ 28	108
33	NY Spills --0910947 / Not Reported --0910947 --423722	PRIVATE RESIDENCE	1277 BRONX RIVER AVE BRONX, NY	0.11 ENE	+ 19	112
H34	NY Spills --0810395 / 2009-01-29 --0803178 / 2008-06-17 --0801685 / 2008-05-15 --0800752 / 2008-04-18 --0713251 / 2008-03-17 --0712861 / 2008-03-07 *Additional key fields are available in the Map Findings section	GETTY #329	1441 WESTCHESTER AVE BRONX, NY	0.11 SE	+ 9	114

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
H34	LTANKS --9504305 / 2006-01-05 --74807 --9504305	GETTY #329	1441 WESTCHESTER AVE BRONX, NY	0.11 SE	+ 9	127
H35	AST --2-152897	GLOBAL MONTELLO GROUP CORP. #5	1441 WESTCHESTER AVENUE BRONX, NY 10472	0.11 SE	+ 9	129
H36	UST	GLOBAL MONTELLO GROUP CORP. #5	1441 WESTCHESTER AVENUE BRONX, NY 10472	0.11 SE	+ 9	134
H37	NY Spills --1215811 / 2013-03-29 --1215811 --479143	GETTY GAS STATION	1441 WESTCHESTER AVE BRONX, NY	0.11 SE	+ 9	146
H38	NY Spills --1311378 / 2014-03-31 --1311378 --492273	BELOW DISPENSORS	1441 WESTCHESTER AVE BRONX, NY	0.11 SE	+ 9	148
H39	NY Spills --1215865 / 2013-03-04 --1215865 --479197	ALLIANCE ENERGY LLC	1441 WESTCHESTER AVE BRONX, NY	0.11 SE	+ 9	150
H40	NY Spills --9511693 / 1995-12-15 --9511693 --295537	BRONX RIVER AV/WESTCHESTE	BX RIVER AV/WESTCHESTER BRONX, NY	0.11 SE	+ 9	152
H41	RCRA NonGen / NLR --NYP000964940	VERIZON	W CHESTER & BRONX RIVER A BRONX, NY 10463	0.11 SE	+ 9	154
H42	RCRA NonGen / NLR --NYP004246114	CON EDISON MANHOLE 23574	BRONX RIVER AVE & CLOSE A BRONX, NY 10472	0.11 SE	+ 9	155
H43	NY Spills --8909355 / 1989-12-29 --8909355 --163893	WESTCHESTER @ CLOSE AV/BX	WESTCHESTER AV @ CLOSE AV BRONX, NY	0.11 SE	+ 9	156

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
44	NY Spills --9815456 / 2004-06-16 --9815456 --225191	THOMAS RES	1252 BRONX RIVER AVE BRONX, NY	0.11 East	+ 15	158
45	RCRA NonGen / NLR --NYP003664406	NYC DEP	1508 BOONE AVE BRONX, NY 10460	0.11 NNW	+ 19	160
J46	RCRA NonGen / NLR --NYD987002003	GETTY SERVICE STATION	1185 BRONX RIVER AVE BRONX, NY 10472	0.11 SSE	+ 9	162
J47	NY Spills --0902005 / 2009-05-26 --0902005 --414034	GETTY # 268	1185 BRONXRIVER AVE BRONX, NY	0.11 SSE	+ 9	165
J48	NY Spills --0810541 / 2009-02-13 --0809157 / 2008-11-18 --0713291 / 2008-03-17 --0704838 / 2007-08-01 --0702919 / 2008-11-24 --0700963 / 2007-04-25 *Additional key fields are available in the Map Findings section	GETTY S/S #268 - GETTY PROPERT	1185 BRONX RIVER AVE BRONX, NY	0.11 SSE	+ 9	167
J48	LTANKS --9209035 / 2007-05-04 --0512577 / 2006-05-11 --211852 --358914 --9209035 --0512577 *Additional key fields are available in the Map Findings section	GETTY S/S #268 - GETTY PROPERT	1185 BRONX RIVER AVE BRONX, NY	0.11 SSE	+ 9	180
J49	AST --2-153524	GLOBAL MONTELLO GROUP CORP. #5	1185 BRONX RIVER AVENUE BRONX, NY 10465	0.11 SSE	+ 9	184
J49	UST	GLOBAL MONTELLO GROUP CORP. #5	1185 BRONX RIVER AVENUE BRONX, NY 10465	0.11 SSE	+ 9	188
50	NY Spills --9912859 / 2000-03-02 --9912859 --162355	SERVICE BOX 2252	1230 COLGATE AV BRONX, NY	0.12 ESE	+ 13	201

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
51	NY Spills --9908693 / 2002-02-22 --9908693 --298677	MANHOLE 495	WEST FARM RD/ FREEDMAN ST BRONX, NY	0.12 WSW	+ 38	203
K52	RCRA NonGen / NLR --NYP004223723	CON EDISON MANHOLE 21800	WESTCHESTER AVE & WHITLOC BRONX, NY 10459	0.12 SSW	+ 22	205
53	NY Spills --9712845 / 1998-02-18 --9704954 / 1997-11-19 --9700109 / 2012-09-25 --9700109 --9704954 --9712845 *Additional key fields are available in the Map Findings section	WELFARE OFFICE BLDG - GETTY PR	1209 COLGATE AVE BRONX, NY	0.12 ESE	+ 11	206
L54	NY Spills --1103358 / 2011-09-19 --1103358 --450919	NYC BD OF ED - PUBLIC SCHOOL 8	1434 LONGFELLOW AVE BRONX, NY 10460	0.12 WNW	+ 39	213
L54	RCRA-SQG --NYR000010553	NYC BD OF ED - PUBLIC SCHOOL 8	1434 LONGFELLOW AVE BRONX, NY 10460	0.12 WNW	+ 39	215
L55	AST --2-351903	P.S. 811 (OLD I84) - BRONX X08	1434 LONGFELLOW AVENUE BRONX, NY 10459	0.12 WNW	+ 39	218
56	RCRA NonGen / NLR --NYP004725065	CON EDISON	1000 FREEMAN ST BRONX, NY 10459	0.12 WSW	+ 39	224
K57	RCRA-LQG --NYP000971580	VERIZON	WESTCHESTER AVE & HOME ST BRONX, NY 10459	0.14 SSW	+ 27	225
M58	LTANKS --1405324 / 2014-09-23 --498747 --1405324	ABALON PRECISION MFG. CORP.	1174 LONGFELLOW AVE BRONX, NY	0.16 SW	+ 41	227
59	LTANKS --8905394 / 2006-11-02 --129512 --8905394	APARTMENT BUILDING	1275 WESTCHESTER AVENUE BRONX, NY	0.17 SW	+ 34	229

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
M60	LTANKS --0302371 / 2003-06-10 --126054 --0302371	SPILL NUMBER 0302371	1150 LONGFELLOW AVE BRONX, NY	0.17 SW	+ 41	232
61	DRYCLEANERS --2-6007-00787	COLGATE DRY CLEANERS	1170 COLGATE AVE BRONX, NY 10472	0.18 SE	+ 10	234
62	LTANKS --0011458 / 2004-05-03 --157591 --0011458	SPILL NUMBER 0011458	1256 WHEELER AVE BRONX, NY	0.20 East	+ 18	235
63	LTANKS --0307241 / 2005-07-19 --290018 --0307241	LOT 15,TAXBLOCK 3014	1560 BOONE AVENUE BRONX, NY 10460	0.21 North	+ 21	237
64	LTANKS --0905332 / 2009-09-02 --417594 --0905332	LANGSAN PROPERTY TTF	1148-50 COLGATE AVE BRONX, NY	0.21 SE	+ 9	239
65	LTANKS --0413444 / 2005-05-27 --342581 --0413444	GARCIA RESIDENCE	1316 WHEELER AVENUE NEW YORK, NY	0.22 ENE	+ 30	241
N66	DRYCLEANERS --2-6007-00804	ACE CLEANERS	1496A WESTCHESTER AVE BRONX, NY 10472	0.23 ESE	+ 16	243
N67	DRYCLEANERS --2-6007-00282	ACE CLEANERS (OLD ADDRESS)	1500 WESTCHESTER AVE. BRONX, NY 10472	0.23 ESE	+ 17	244
68	SWF/LF	SPECIALTY MOTOR CARS INC	1125 BRONX RIVER AVE BRONX, NY 10472	0.24 SSE	+ 1	245
69	LTANKS --9607847 / 1996-09-23 --325743 --9607847	1210 ELDER AVENUE	1210 ELDER AVENUE BRONX, NY	0.27 East	+ 31	246

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
70	LTANKS --0510769 / 2006-07-20 --356806 --0510769	APARTMENT BUILDING	1134 WEST FARMS RD BRONX, NY	0.27 SW	+ 54	248
71	LTANKS --9201510 / 2006-10-31 --100429 --9201510	1151 E 165TH ST	1151 E 165TH ST BRONX, NY	0.29 SSW	+ 28	250
72	LTANKS --8903579 / 2003-03-04 --175288 --8903579	CLOSED-LACKOF RECENT INFO	1095 CLOSE AVENUE NEW YORK CITY, NY	0.29 SSE	+ 3	252
73	LTANKS --9808568 / 1998-10-26 --312997 --9808568	BASEMENT	1535 WESTCHESTER AVE BRONX, NY	0.30 ESE	+ 30	254
74	LTANKS --9006953 / 1998-01-12 --71469 --9006953	1471-3 WATSON AVENUE (BRONXDAL	1471-3 WATSON AVENUE BRONX, NY 10473	0.30 SE	+ 6	256
75	LTANKS --0400237 / 2006-01-12 --238140 --0400237	TANK LEAK IN REAR YARD	1347 BOYNTON AVE BRONX, NY	0.30 NE	+ 32	258
76	LTANKS --0711323 / 2008-10-31 --392784 --0711323	APRT	1075 LONGFELLOW AVE BRONX, NY	0.30 SSW	+ 38	261
77	LTANKS --0402409 / 2007-07-19 --194710 --0402409	CHASE MANHATTEN BANK	1536 WESTCHESTER AVENUE BRONX, NY	0.32 ESE	+ 30	263
78	LTANKS --8704609 / 2003-03-03 --287785 --8704609	CLOSED-LACKOF RECENT INFO	985 EAST 167TH STREET NEW YORK CITY, NY	0.34 SW	+ 53	267

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
79	LTANKS --0000461 / 2000-09-19 --171392 --0000461	CON EDISON	1213 WARD AV BRONX, NY 10472	0.34 East	+ 32	269
80	LTANKS --9011819 / 1991-02-11 --230614 --9011819	1050 BRONX RIVER AVE/BX	1050 BRONX RIVER AVENUE NEW YORK CITY, NY	0.35 SSE	+ 7	271
81	LTANKS --9811582 / 2008-05-20 --161817 --9811582	BRYANT AVENUE EAST 174TH ST (M	1705 BRYANT AVENUE BRONX, NY 10460	0.37 North	+ 69	273
82	LTANKS --9300539 / 2002-12-20 --101278 --9300539	1080 WHEELER AVE	1080 WHEELER AVE BRONX, NY	0.38 SE	+ 12	275
83	LTANKS --9108166 / 2000-05-02 --116014 --9108166	VERIZON NEW YORK INC-NY-90201	1106 HOE AVENUE BRONX, NY 10459	0.38 SW	+ 52	277
84	LTANKS --0104700 / 2005-07-14 --99970 --0104700	MADISON SQUARE BOYS & GIRLS CL	1665 HOE AV BRONX, NY	0.39 NNW	+ 60	279
85	SHWS --513986 --Significant threat to the public health or environment - action required.	BETHEL CLEANERS	1120 WESTCHESTER AVE BRONX, NY 10459	0.39 SW	+ 51	281
86	LTANKS --8904140 / 1998-02-09 --157699 --8904140	MINFORD PL &EAST 172ND ST	MINFORD PL / E 172ND ST NEW YORK CITY, NY	0.39 NW	+ 52	284
87	LTANKS --9814911 / 1999-03-16 --201337 --9814911	SIMCHESTER REALTY	1105 BOYNTON AVE BRONX, NY	0.40 SE	+ 32	286

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
88	LTANKS --9112926 / 1993-12-14 --297773 --9112926	EXXONMOBIL	1419 BRUCKNER BLVD BRONX, NY	0.42 SSE	+ 8	288
89	LTANKS --9407671 / 2007-06-29 --150546 --9407671	U- HAUL	1365 BRUCKNER BLVD BRONX, NY	0.42 South	+ 29	290
90	LTANKS --9411941 / 2006-02-03 --9412464 / 2006-02-03 --240316 --250806 --9411941 --9412464 *Additional key fields are available in the Map Findings section	BRONX RIVER HOUSES -NYCHA	1575 EAST 174TH STREET BRONX, NY	0.42 NE	+ 20	295
91	LTANKS --9611589 / 1996-12-30 --60767 --9611589	ROADWAY	1035 WHEELER AVE BRONX, NY	0.42 SE	+ 8	298
92	BROWNFIELDS --461295 --442053	1095 SOUTHERN BLVD.- OFF-SITE	1095 SOUTHERN BLVD. BRONX, NY 10459	0.43 WSW	+ 48	300
93	LTANKS --9211493 / 1993-01-07 --117140 --9211493	1025 ALDUS STREET	1025 ALDUS STREET BRONX, NY	0.43 SSW	+ 37	308
94	LTANKS --9200547 / 1992-06-18 --233503 --9200547	1499 BRUCKNER BLVD/AMOCO	1499 BRUCKNER BLVD/AMOCO BRONX, NY	0.46 SE	+ 1	310
95	LTANKS --8704437 / 2003-03-03 --325285 --8704437	CLOSED-LACKOF RECENT INFO	1372 STRAFFORD AVE. NEW YORK CITY, NY	0.46 ENE	+ 20	312
96	LTANKS --1609935 / Not Reported --538749 --1609935	HOME	1057 WARD AVE BRONX, NY	0.48 SE	+ 23	314

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
97	LTANKS --9900624 / 1999-08-13 --9901242 / 1999-06-04 --9207805 / 1992-11-02 --246545 --246546 --321907 *Additional key fields are available in the Map Findings section	GETTY	1340 BRUCKNER BLVD BRONX, NY	0.49 South	+ 28	316
98	LTANKS --0110464 / 2003-07-07 --207160 --0110464	FABCO	1052 SOUTHERN BLVD BRONX, NY	0.49 SW	+ 48	320
99	LTANKS --0301007 / 2003-09-16 --0702940 / 2015-11-17 --73564 --382768 --0301007 --0702940 *Additional key fields are available in the Map Findings section	APARTMENT - TTF	1240 MORRISON AVE BRONX, NY	0.49 East	+ 8	322
100	LTANKS --0112238 / 2006-03-06 --316178 --0112238	1797 VYSE AVE	1797 VYSE AV BRONX, NY	0.49 North	+ 61	329
101	LTANKS --9112455 / 1992-03-06 --198463 --9112455	1605 E 174TH ST	1605 E 174TH ST BRONX, NY	0.50 ENE	+ 12	331

Sites Summary Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

TOTAL: 116 GEOCODED: 115 NON GEOCODED: 1

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
	VCP --57093	CE - E. 173RD ST. - BRONX WORK	WEST FARMS RD.& BRONX RIV BRONX, NY 10460	NON GC	N/A	N/A

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100177768 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A1

NAME: LKQ HUNTS POINT AUTO PARTS CORP

ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-233366

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated/Closed
Facility Id: 2-233366
Program Type: PBS
UTM X: 593996.91942
UTM Y: 4520465.21341
Expiration Date: N/A
Site Type: Other

Affiliation Records:
Site Id: 8488
Affiliation Type: Mail Contact
Company Name: LKQ HUNTS POINT AUTO PARTS CORP
Contact Type: Not reported
Contact Name: LOUIS SCARNATI
Address1: 1480 SHERIDAN EXPRESSWAY
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10459
Country Code: 001
Phone: (718) 589-4444
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 8488
Affiliation Type: On-Site Operator
Company Name: LKQ HUNTS POINT AUTO PARTS CORP
Contact Type: Not reported
Contact Name: LOUIS SCARNATI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NY
Zip Code: Not reported
Country Code: 001
Phone: (718) 589-4444
EMail: Not reported
Fax Number: Not reported
Modified By: BKFALVEY
Date Last Modified: 2011-11-14

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100177768 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A1

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-233366

Site Id: 8488
Affiliation Type: Facility Owner
Company Name: LKQ HUNTS POINT AUTO PARTS CORP
Contact Type: Not reported
Contact Name: Not reported
Address1: 120 NORTH LASALLE STREET, SUITE 9900
Address2: Not reported
City: CHICAGO
State: IL
Zip Code: 60602-2416
Country Code: 001
Phone: (718) 589-4444
EMail: Not reported
Fax Number: Not reported
Modified By: HDDUPIGN
Date Last Modified: 2015-12-17

Site Id: 8488
Affiliation Type: Emergency Contact
Company Name: LKQ HUNTS POINT AUTO PARTS CORP
Contact Type: Not reported
Contact Name: ANTHONY MASI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (917) 440-6910
EMail: Not reported
Fax Number: Not reported
Modified By: HDDUPIGN
Date Last Modified: 2015-12-17

Tank Info:

Tank Number: #1
Tank Id: 10988
Material Code: 0008
Common Name of Substance: Diesel

Equipment Records:
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100177768 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A1

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-233366

G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K01 - Spill Prevention - Catch Basin
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 01/01/2001
Capacity Gallons: 1000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 03/28/2014
Register: True
Modified By: NRLOMBAR
Last Modified: 05/20/2014
Material Name: Not reported

Tank Number: #2
Tank Id: 10989
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K01 - Spill Prevention - Catch Basin
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100177768 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A1

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-233366

Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 01/01/2001
Capacity Gallons: 1000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 03/28/2014
Register: True
Modified By: NRLOMBAR
Last Modified: 05/20/2014
Material Name: Not reported

Tank Number: #4
Tank Id: 10990
Material Code: 0009
Common Name of Substance: Gasoline

Equipment Records:
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
G01 - Tank Secondary Containment - Diking (Aboveground)
F00 - Pipe External Protection - None
Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 01/01/2001
Capacity Gallons: 249
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 03/28/2014
Register: True
Modified By: NRLOMBAR
Last Modified: 05/20/2014
Material Name: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100177768 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A1

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-233366

Tank Number: #5
Tank Id: 60461
Material Code: 0009
Common Name of Substance: Gasoline

Equipment Records:
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
G01 - Tank Secondary Containment - Diking (Aboveground)
F00 - Pipe External Protection - None
Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 01/01/2001
Capacity Gallons: 249
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 03/28/2014
Register: True
Modified By: NRLOMBAR
Last Modified: 05/20/2014
Material Name: Not reported

Tank Number: 6
Tank Id: 260042

Equipment Records:
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K01 - Spill Prevention - Catch Basin
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100177768 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A1

NAME: LKQ HUNTS POINT AUTO PARTS CORP

ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-233366

G01 - Tank Secondary Containment - Diking (Aboveground)
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
Tank Location: 1
Tank Type: Galvanized Steel Alloy
Tank Status: In Service
Pipe Model: Not reported
Install Date: 04/01/2014
Capacity Gallons: 1000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: HDDUPIGN
Last Modified: 12/17/2015
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

FINDS

EDR ID: 1006199823 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A2

NAME: LKQ HUNTS POINT AUTO PARTS
ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: US EPA

Rev: 07/15/2016
ID/Status: 110009001793

FINDS:

Registry ID: 110009001793

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

AIR MINOR

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

US AIRS

EDR ID: 1006199823 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A2

NAME: LKQ HUNTS POINT AUTO PARTS
ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: US EPA

Rev: 10/12/2016
ID/Status: 110009001793

US AIRS MINOR:
Envid: 1006199823
Region Code: 02
Programmatic ID: AIR NY0000002600500852
Facility Registry ID: 110009001793
D and B Number: Not reported
Primary SIC Code: 5015
NAICS Code: 999999
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 02
Programmatic ID: AIR NY0000002600500852
Facility Registry ID: 110009001793
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Stratospheric Ozone Protection
Activity Date: 1996-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

CBS AST

EDR ID: S105126289 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A3

NAME: LKQ HUNTS POINT AUTO PARTS CORP

ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY NYSDEC

Rev: 01/01/2002
ID/Status: IN SERVICE
ID/Status: 1
ID/Status: 2-000383

CBS AST:
CBS Number: 2-000383
ICS Number: Not reported
PBS Number: Not reported
MOSF Number: Not reported
SPDES Number: Not reported
Facility Status: IN SERVICE
Facility Type: I
Telephone: (718) 589-4444
Facility Town: NEW YORK CITY
Region: STATE
Expiration Date: 08/24/2003
Total Capacity of All Active Tanks(gal): 300
Operator: LOUIS SCARNATI
Emergency Contact: ANTHONY MASI
Emergency Phone: (914) 776-5936
Owner Name: LKQ HUNTS POINT AUTO PARTS CORP
Owner Address: 120 NORTH LASALLE ST. SUITE 9900
Owner City,St,Zip: CHICAGO, IL 60602-2416
Owner Telephone: (312) 621-2729
Owner Type: Corporate/Commercial
Owner Sub Type: Not reported
Mail Name: LKQ HUNTS POINT AUTO PARTS
Mail Contact Addr: 1480 SHERIDAN EXPRESSWAY
Mail Contact Addr2: Not reported
Mail Contact Contact: LOUIS SCARNATI
Mail Contact City,St,Zip: BRONX, NY 10459
Mail Phone: (718) 589-4444

Tank Id: 3
CAS Number: 107211
Federal ID: Not reported
Tank Status: In Service
Install Date: 01/01
Tank Closed: Not reported
Capacity (Gal): 300
Chemical: Ethylene glycol
Tank Location: Indoors, Aboveground
Tank Type: Steel/carbon steel
Total Tanks: 1
Tank Secret: False
Tank Secondary Containment: Double-Walled Tank
Tank Error Status: No Missing Data
Date Entered: 08/24/2001

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

CBS AST

EDR ID: S105126289 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A3

NAME: LKQ HUNTS POINT AUTO PARTS CORP

ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY NYSDEC

Rev: 01/01/2002
ID/Status: IN SERVICE
ID/Status: 1
ID/Status: 2-000383

Certified Date: 08/24/2001
Substance: Single Hazardous Substance on DEC List
Internal Protection: None
External Protection: None
Pipe Location: None
Pipe Type: 0
Pipe Internal: None
Pipe External: None
Pipe Flag: None
Leak Detection: Concrete Pad w/channels
Overfill Protection: 14
Haz Percent: 100
Last Test: Not reported
Due Date: Not reported
SWIS Code: 6001
Lat/Long: Not reported
Is Updated: False
Renew Date: Not reported
Is It There: False
Delinquent: False
Date Expired: Not reported
Owner Mark: 1
Certificate Needs to be Printed: False
Fiscal Amt for Registration Fee Correct: True
Renewal Has Been Printed for Facility: False
Pre-Printed Renewal App Last Printed: / /

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

SPDES

EDR ID: S108145970 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A4

NAME: LKQ HUNTS POINT AUTO PARTS CORP
ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 01/30/2017
ID/Status: NYR00B428
ID/Status: A

SPDES:

Permit Number: NYR00B428
State-Region: 02
Expiration Date: 09/30/2017
Current Major Minor Status: Minor
Primary Facility SIC Code: 5015
State Water Body Name: BRONX RIVER
Limit Set Status Flag: Active
Total Actual Average Flow(MGD): Not reported
Total App Design Flow(MGD): Not reported
UDF1: Not reported
Lat/Long: 40.829 / -73.884
DMR Cognizant Official: Not reported
UDF2: Not reported
UDF3: Not reported
FIPS County Code: NY005

Non-Gov Permit Affiliation Type Desc: DMR Mailing Address
Non-Gov Permit Org Formal Name: TABS CONSULTING GROUP INC
Non-Gov Permit Street Address: LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Permit Supplemental Location: 2 52ND ST, BOX B11
Non-Gov Permit City: BROOKLYN
Non-Gov Permit State Code: NY
Non-Gov Permit Zip Code: 11232
Non-Gov Facility Affiliation Type Desc: Owner
Non-Gov Facility Org Formal Name: LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Street Address: LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Supplemental Location: 1480 SHERIDAN EXPY
Non-Gov Facility City: BRONX
Non-Gov Facility State Code: NY
Non-Gov Facility Zip Code: 10459
State Water Body: Not reported

UDF2: Not reported
UDF3: Not reported
FIPS County Code: NY005

Non-Gov Permit Affiliation Type Desc: Permittee
Non-Gov Permit Org Formal Name: LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Permit Street Address: 1480 SHERIDAN EXPY
Non-Gov Permit Supplemental Location: Not reported
Non-Gov Permit City: BRONX
Non-Gov Permit State Code: NY

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

SPDES

EDR ID: S108145970 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A4

NAME: LKQ HUNTS POINT AUTO PARTS CORP

ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 01/30/2017
ID/Status: NYR00B428
ID/Status: A

Non-Gov Permit Zip Code: 10459
Non-Gov Facility Affiliation Type Desc: Owner
Non-Gov Facility Org Formal Name: LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Street Address: LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Supplemental Location: 1480 SHERIDAN EXPY
Non-Gov Facility City: BRONX
Non-Gov Facility State Code: NY
Non-Gov Facility Zip Code: 10459
State Water Body: Not reported

UDF2: Not reported
UDF3: Not reported
FIPS County Code: NY005

Non-Gov Permit Affiliation Type Desc: Not reported
Non-Gov Permit Org Formal Name: Not reported
Non-Gov Permit Street Address: Not reported
Non-Gov Permit Supplemental Location: Not reported
Non-Gov Permit City: Not reported
Non-Gov Permit State Code: Not reported
Non-Gov Permit Zip Code: Not reported
Non-Gov Facility Affiliation Type Desc: Owner
Non-Gov Facility Org Formal Name: LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Street Address: LKQ HUNTS POINT AUTO PARTS CORP
Non-Gov Facility Supplemental Location: 1480 SHERIDAN EXPY
Non-Gov Facility City: BRONX
Non-Gov Facility State Code: NY
Non-Gov Facility Zip Code: 10459
State Water Body: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

CBS

EDR ID: S108145970 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A4

NAME: LKQ HUNTS POINT AUTO PARTS CORP

ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: Unregulated/Closed
ID/Status: 2-000383

CBS:
CBS Number: 2-000383
Program Type: CBS
Facility Status: Unregulated/Closed
Expiration Date: Not reported
Dec Region: 2
UTMX: 594046.89405
UTMY: 4520448.82557

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

SWF/LF

EDR ID: S108145970 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A4

NAME: LKQ HUNTS POINT AUTO PARTS CORP **Rev:** 01/04/2017

ADDRESS: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

SWF/LF:
Flag: ACTIVE
Region Code: 2
Phone Number: 7185894444
Owner Name: LKQ Hunts Point Auto Parts Corp
Owner Type: Private
Owner Address: 1480 Sheridan Exp
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10459
Owner Email: jracosta@LKQcorp.com
Owner Phone: 7185894444
Contact Name: Not reported
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: Vehicle Dismantling Facility
Activity Number: [7085255]
Active: Yes
East Coordinate: 593998
North Coordinate: 4520466
Accuracy Code: Not reported
Regulatory Status: Not reported
Waste Type: Not reported
Authorization #: Not reported
Authorization Date: Not reported
Expiration Date: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

MANIFEST

EDR ID: 1000420701 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A5

NAME: HUNTS POINT AUTO WRECKERS
ADDRESS: 1480 SHERIDAN EXPWY
BRONX, NY 10473
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 01/30/2017
ID/Status: NYD083059899

NY MANIFEST:
Country: USA
EPA ID: NYD083059899
Facility Status: Not reported
Location Address 1: 1488 SHERIDAN EXPRESSWAY
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: BRONX
Location State: NY
Location Zip: 10474
Location Zip 4: Not reported

NY MANIFEST:
EPAID: NYD083059899
Mailing Name: HUNTS POINT AUTO WRECKERS
Mailing Contact: FABRIZZIO A.
Mailing Address 1: 1488 SHERIDAN EXPRESSWAY
Mailing Address 2: Not reported
Mailing City: BRONX
Mailing State: NY
Mailing Zip: 10474
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 2125894444

NY MANIFEST:
Document ID: NYC1913578
Manifest Status: C
seq: Not reported
Year: 1992
Trans1 State ID: DL7754NY
Trans2 State ID: Not reported
Generator Ship Date: 10/20/1992
Trans1 Recv Date: 10/20/1992
Trans2 Recv Date: / /
TSD Site Recv Date: 10/20/1992
Part A Recv Date: / /
Part B Recv Date: 10/30/1992
Generator EPA ID: NYD083059899
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID 1: NYD980785760
TSDF ID 2: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

MANIFEST

EDR ID: 1000420701 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A5

NAME: HUNTS POINT AUTO WRECKERS
ADDRESS: 1480 SHERIDAN EXPWY
BRONX, NY 10473
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 01/30/2017
ID/Status: NYD083059899

Manifest Tracking Number: Not reported
Import Indicator: Not reported
Export Indicator: Not reported
Discr Quantity Indicator: Not reported
Discr Type Indicator: Not reported
Discr Residue Indicator: Not reported
Discr Partial Reject Indicator: Not reported
Discr Full Reject Indicator: Not reported
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: Not reported
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 00131
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: 1000420701 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A5

NAME: HUNTS POINT AUTO WRECKERS
ADDRESS: 1480 SHERIDAN EXPWY
BRONX, NY 10473
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9702732 / 2005-11-28
ID/Status: 83758
ID/Status: 9702732

LTANKS:
Site ID: 83758
Spill Number/Closed Date: 9702732 / 2005-11-28
Spill Date: 1997-06-03
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: True
SWIS: 0301
Investigator: RCEDWARD
Referred To: Not reported
Reported to Dept: 1997-06-03
CID: 267
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1997-06-03
Spill Record Last Update: 2006-01-31
Spiller Name: JOE SIMONE
Spiller Company: HUNTS POINT AUTO PARTS
Spiller Address: 1480 SHERDIAN EXPRESSWAY
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: JOE SIMONE
Spiller Phone: (718) 893-0303
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 77056
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL 3x550. Closed with water more than 5 years ago. FD required 10 year test because they were still listed as active. All 3 tanks (2 gas & 1 diesel) failed. 4/12/04-Vought-Spill transferred from Tibbe to Rommel as per Rommel. 11/28/05 -Edwards - per file - Tanks removed. Remediation report and analytical results submitted to DEC 8/97."
Remarks: "OLD TANKS WHICH WERE FILLED WITH WATER YEARS AGO WERE BEING PRESSURE TESTED PER THE FIRE DEPT FOR TEN YEAR TEST TANKS ORIGINALLY WERE FOR DIESEL AND GASOILNE"

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: 1000420701 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A5

NAME: HUNTS POINT AUTO WRECKERS

ADDRESS: 1480 SHERIDAN EXPWY
BRONX, NY 10473
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9702732 / 2005-11-28
ID/Status: 83758
ID/Status: 9702732

Material:
Site ID: 83758
Operable Unit ID: 1045460
Operable Unit: 01
Material ID: 335666
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported
Site ID: 83758
Operable Unit ID: 1045460
Operable Unit: 01
Material ID: 335665
Material Code: 0008
Material Name: diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-CESQG

EDR ID: 1000420701 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A5

NAME: HUNTS POINT AUTO WRECKERS

ADDRESS: 1480 SHERIDAN EXPWY
BRONX, NY 10473
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYD083059899

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: HUNTS POINT AUTO WRECKERS
Facility address: 1480 SHERIDAN EXPWY
BRONX, NY 10473
EPA ID: NYD083059899
Mailing address: SHERIDAN EXPWY
BRONX, NY 10473
Contact: Not reported
Contact address: SHERIDAN EXPWY
BRONX, NY 10473
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: JOSEPH SIMONE
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: JOSEPH SIMONE
Owner/operator address: NOT REQUIRED

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-CESQG

EDR ID: 1000420701 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A5

NAME: HUNTS POINT AUTO WRECKERS
ADDRESS: 1480 SHERIDAN EXPWY
BRONX, NY 10473
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYD083059899

NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: HUNTS POINT AUTO WRECKERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/08/1999
Site name: HUNTS POINT AUTO WRECKERS
Classification: Not a generator, verified

Date form received by agency: 05/22/1987
Site name: HUNTS POINT AUTO WRECKERS
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-CESQG

EDR ID: 1000420701 **DIST/DIR:** 0.000 **ELEVATION:** 11 **MAP ID:** A5

NAME: HUNTS POINT AUTO WRECKERS

ADDRESS: 1480 SHERIDAN EXPWY
BRONX, NY 10473
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYD083059899

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001832697 **DIST/DIR:** 0.003 SSW **ELEVATION:** 19 **MAP ID:** B6

NAME: MARINE BOILER & WELDING INC **Rev:** 12/28/2016

ADDRESS: 1428 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

UST:
Id/Status: 2-097748 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 593975.30272
UTM Y: 4520275.08185
Site Type: Other

Affiliation Records:
Site Id: 2807
Affiliation Type: On-Site Operator
Company Name: MARINE BOILER & WELDING INC
Contact Type: Not reported
Contact Name: WILLIAM FALCO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 378-1900
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2010-07-28

Site Id: 2807
Affiliation Type: Facility Owner
Company Name: HOLD CONTRACTING
Contact Type: PRESIDENT
Contact Name: WILLIAM FALCO
Address1: 1428 SHERIDAN EXPRESSWAY
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10459
Country Code: 001
Phone: (718) 378-1900
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2010-07-28

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001832697 **DIST/DIR:** 0.003 SSW **ELEVATION:** 19 **MAP ID:** B6

NAME: MARINE BOILER & WELDING INC **Rev:** 12/28/2016

ADDRESS: 1428 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Site Id: 2807
Affiliation Type: Mail Contact
Company Name: MARINE BOILER & WELDING INC.
Contact Type: Not reported
Contact Name: MR. WILLIAM FALCO
Address1: 1428 SHERIDAN EXPRESSWAY
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10459
Country Code: 001
Phone: (718) 378-1900
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2010-07-28

Site Id: 2807
Affiliation Type: Emergency Contact
Company Name: HOLD CONTRACTING
Contact Type: Not reported
Contact Name: WILLIAM FALCO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (914) 725-2519
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2010-07-28

Tank Info:

Tank Number: 00I
Tank ID: 5142
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 12/01/1959
Date Tank Closed: 02/09/1999
Registered: True

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001832697 **DIST/DIR:** 0.003 SSW **ELEVATION:** 19 **MAP ID:** B6

NAME: MARINE BOILER & WELDING INC **Rev:** 12/28/2016

ADDRESS: 1428 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 0II
Tank ID: 5143
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 2000
Install Date: 03/01/1975
Date Tank Closed: 07/06/2010
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 05/26/2010
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: BKFALVEY
Last Modified: 07/30/2010

Equipment Records:
E00 - Piping Secondary Containment - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001832697 **DIST/DIR:** 0.003 SSW **ELEVATION:** 19 **MAP ID:** B6

NAME: MARINE BOILER & WELDING INC **Rev:** 12/28/2016

ADDRESS: 1428 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

J02 - Dispenser - Suction Dispenser
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
A01 - Tank Internal Protection - Epoxy Liner
F08 - Pipe External Protection - Retrofitted Impressed Current
D02 - Pipe Type - Galvanized Steel
B08 - Tank External Protection - Retrofitted Impressed Current
H05 - Tank Leak Detection - In-Tank System (ATG)

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100360418 **DIST/DIR:** 0.016 SSW **ELEVATION:** 18 **MAP ID:** B7

NAME: SHERIDAN AUTO REPAIRS INC.

ADDRESS: 1476 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-611774

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-611774
Program Type: PBS
UTM X: 594041.36701
UTM Y: 4520639.18626
Expiration Date: 03/13/2017
Site Type: Auto Service/Repair (No Gasoline Sales)

Affiliation Records:
Site Id: 461893
Affiliation Type: Facility Owner
Company Name: FELIX LOPEZ-ALVAREZ
Contact Type: Not reported
Contact Name: Not reported
Address1: 84 WEST 181ST STREET
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10453
Country Code: 001
Phone: (646) 542-7819
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2012-03-13

Site Id: 461893
Affiliation Type: Mail Contact
Company Name: UNITED AUTO MERCHANTS ASSOCATION
Contact Type: Not reported
Contact Name: PEDRO J. ESTEVEZ
Address1: 14 WEST 170TH STREET
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10452
Country Code: 001
Phone: (347) 590-1142
EMail: UAMA07@GMAIL.COM
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2012-03-13

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100360418 **DIST/DIR:** 0.016 SSW **ELEVATION:** 18 **MAP ID:** B7

NAME: SHERIDAN AUTO REPAIRS INC.
ADDRESS: 1476 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-611774

Site Id: 461893
Affiliation Type: On-Site Operator
Company Name: SHERIDAN AUTO REPAIRS INC.
Contact Type: Not reported
Contact Name: FELIX LOPEZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 364-1031
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2012-03-13

Site Id: 461893
Affiliation Type: Emergency Contact
Company Name: FELIX LOPEZ-ALVAREZ
Contact Type: Not reported
Contact Name: FELIX LOPEZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (646) 542-789
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2012-03-13

Tank Info:

Tank Number: 023
Tank Id: 243198
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100360418 **DIST/DIR:** 0.016 SSW **ELEVATION:** 18 **MAP ID:** B7

NAME: SHERIDAN AUTO REPAIRS INC.

ADDRESS: 1476 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-611774

H00 - Tank Leak Detection - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
I01 - Overfill - Float Vent Valve
L00 - Piping Leak Detection - None
J00 - Dispenser - None
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 07/14/2011
Capacity Gallons: 55
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NRLOMBAR
Last Modified: 03/13/2012
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S103273668 **DIST/DIR:** 0.023 ENE **ELEVATION:** 8 **MAP ID:** 8

NAME: BRONX RIVER

ADDRESS: EAST 172ND ST/WESTCHESTER
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9800775 / 2003-02-12
ID/Status: 9800775
ID/Status: 306169

SPILLS:
Facility ID: 9800775
Facility Type: ER
DER Facility ID: 247308
Site ID: 306169
DEC Region: 2
Spill Date: 1998-04-17
Spill Number/Closed Date: 9800775 / 2003-02-12
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: KGHALE
Referred To: Not reported
Reported to Dept: 1998-04-17
CID: 281
Water Affected: BRONX RIVER
Spill Source: Unknown
Spill Notifier: Fire Department
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1998-04-17
Spill Record Last Update: 2003-02-13
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: SOLLIN
Contact Phone: (917) 769-0483
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was HALE 02/12/2003-Closed Due To The Nature / Extent Of The Spill Report."
Remarks: "UNKNOWN MATERIAL FOUND SPILLED IN ABOVE LOCATION. FIRE DEPT ON SCENE AND ARE TRYING TO DETERMINE MATERIAL AND CAUSE OF SPILL. REQUEST CALL BACK FROM DEC ASAP."

Material:
Site ID: 306169
Operable Unit ID: 1058253
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S103273668 **DIST/DIR:** 0.023 ENE **ELEVATION:** 8 **MAP ID:** 8

NAME: BRONX RIVER

ADDRESS: EAST 172ND ST/WESTCHESTER
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9800775 / 2003-02-12
ID/Status: 9800775
ID/Status: 306169

Material ID: 322723
Material Code: 0064A
Material Name: unknown material
Case No.: Not reported
Material FA: Other
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100300919 **DIST/DIR:** 0.070 SSW **ELEVATION:** 37 **MAP ID:** C9

NAME: NONE

ADDRESS: 1040 - 1052 EDGEWATER ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-610205

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated/Closed
Facility Id: 2-610205
Program Type: PBS
UTM X: 593989.87754
UTM Y: 4520285.48784
Expiration Date: N/A
Site Type: Manufacturing (Other than Chemical)/Processing

Affiliation Records:
Site Id: 364063
Affiliation Type: Facility Owner
Company Name: NYC DEPT OF PARKS & RECREATION
Contact Type: PROJECT MANAGER
Contact Name: MATTHEW BROOKS
Address1: OLMSTEAD CENTER - FLUSHING MEASDOWS-CORONA PARK
Address2: Not reported
City: FLUSHING
State: NY
Zip Code: 11368
Country Code: 001
Phone: (718) 760-6728
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2012-04-19

Site Id: 364063
Affiliation Type: Mail Contact
Company Name: GRAMERCY GROUP, INC.
Contact Type: Not reported
Contact Name: MR. MATTHEW BROOKS
Address1: 100 GRAND STREET
Address2: Not reported
City: WESTBURY
State: NY
Zip Code: 11590
Country Code: 001
Phone: (516) 876-0020
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 2006-05-17

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100300919 **DIST/DIR:** 0.070 SSW **ELEVATION:** 37 **MAP ID:** C9

NAME: NONE

ADDRESS: 1040 - 1052 EDGEWATER ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-610205

Site Id: 364063
Affiliation Type: On-Site Operator
Company Name: NONE
Contact Type: Not reported
Contact Name: GRAMERCY GROUP, INC.
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: NONE
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 2006-05-17

Site Id: 364063
Affiliation Type: Emergency Contact
Company Name: DEPARTMENT OF PARKS - NEW YORK CITY
Contact Type: Not reported
Contact Name: MR. MATTHEW BROOKS
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (516) 369-6668
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 2006-05-17

Tank Info:

Tank Number: 1
Tank Id: 211784
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
G02 - Tank Secondary Containment - Vault (w/access)
B00 - Tank External Protection - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100300919 **DIST/DIR:** 0.070 SSW **ELEVATION:** 37 **MAP ID:** C9

NAME: NONE

ADDRESS: 1040 - 1052 EDGEWATER ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-610205

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
C01 - Pipe Location - Aboveground
Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/30/2005
Capacity Gallons: 10000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 12/30/2005
Register: True
Modified By: KXTANG
Last Modified: 05/17/2006
Material Name: Not reported

Tank Number: 2
Tank Id: 211785
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G02 - Tank Secondary Containment - Vault (w/access)
C01 - Pipe Location - Aboveground

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100300919 **DIST/DIR:** 0.070 SSW **ELEVATION:** 37 **MAP ID:** C9

NAME: NONE

ADDRESS: 1040 - 1052 EDGEWATER ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-610205

Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/30/2005
Capacity Gallons: 10000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 12/30/2005
Register: True
Modified By: KXTANG
Last Modified: 05/17/2006
Material Name: Not reported

Tank Number: 3
Tank Id: 211786
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
J03 - Dispenser - Gravity
K00 - Spill Prevention - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G02 - Tank Secondary Containment - Vault (w/access)

Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/30/2005
Capacity Gallons: 10000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 12/30/2005

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100300919 **DIST/DIR:** 0.070 SSW **ELEVATION:** 37 **MAP ID:** C9

NAME: NONE

Rev: 12/28/2016
ID/Status: 2-610205

ADDRESS: 1040 - 1052 EDGEWATER ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Register: True
Modified By: KXTANG
Last Modified: 05/17/2006
Material Name: Not reported

Tank Number: 4
Tank Id: 211787
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G02 - Tank Secondary Containment - Vault (w/access)
H00 - Tank Leak Detection - None
J03 - Dispenser - Gravity
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/30/2005
Capacity Gallons: 10000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 12/30/2005
Register: True
Modified By: KXTANG
Last Modified: 05/17/2006
Material Name: Not reported

Tank Number: 5
Tank Id: 211788
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100300919 **DIST/DIR:** 0.070 SSW **ELEVATION:** 37 **MAP ID:** C9

NAME: NONE

ADDRESS: 1040 - 1052 EDGEWATER ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-610205

Equipment Records:
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C01 - Pipe Location - Aboveground
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/30/2005
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 12/30/2005
Register: True
Modified By: KXTANG
Last Modified: 05/17/2006
Material Name: Not reported

Tank Number: 6
Tank Id: 211789
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
L00 - Piping Leak Detection - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100300919 **DIST/DIR:** 0.070 SSW **ELEVATION:** 37 **MAP ID:** C9

NAME: NONE

ADDRESS: 1040 - 1052 EDGEWATER ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-610205

C01 - Pipe Location - Aboveground
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/30/2005
Capacity Gallons: 6000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 12/30/2005
Register: True
Modified By: KXTANG
Last Modified: 05/17/2006
Material Name: Not reported

Tank Number: 7
Tank Id: 211790
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 12/30/2005
Capacity Gallons: 275
Tightness Test Method: NN

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100300919 **DIST/DIR:** 0.070 SSW **ELEVATION:** 37 **MAP ID:** C9

NAME: NONE

Rev: 12/28/2016
ID/Status: 2-610205

ADDRESS: 1040 - 1052 EDGEWATER ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 12/30/2005
Register: True
Modified By: KXTANG
Last Modified: 05/17/2006
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1012185546 **DIST/DIR:** 0.072 East **ELEVATION:** 21 **MAP ID:** D10

NAME: CON EDISON
ADDRESS: 1243 BRONX RIVER AVE
BRONX, NY 10452
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYP004163549

RCRA NonGen / NLR:
Date form received by agency: 06/01/2016
Facility name: CON EDISON
Facility address: 1243 BRONX RIVER AVE
BRONX, NY 10452
EPA ID: NYP004163549
Mailing address: 4 IRVING PL, RM 828
NEW YORK, NY 10003
Contact: DANIEL PONTECORVO
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: (347) 203-2573
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/27/2009
Site name: CON EDISON
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S104879841 **DIST/DIR:** 0.073 SSE **ELEVATION:** 1 **MAP ID:** E11

NAME: BRONX RIVER

ADDRESS: WESTCHESTER AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0008407 / 2005-05-03
ID/Status: 0008407
ID/Status: 325485

SPILLS:
Facility ID: 0008407
Facility Type: ER
DER Facility ID: 262178
Site ID: 325485
DEC Region: 2
Spill Date: 2000-10-18
Spill Number/Closed Date: 0008407 / 2005-05-03
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: SMSANGES
Referred To: Not reported
Reported to Dept: 2000-10-18
CID: 205
Water Affected: BRONX WATER
Spill Source: Unknown
Spill Notifier: Citizen
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2000-10-18
Spill Record Last Update: 2006-07-05
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: CALLER
Contact Phone: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND A citizen called in a spill (#0008407)on the Bronx River, just south of Westchester Ave along the west side bulkhead of an abandoned cement plant. Sangesland responded to the site and did NOT see any sheen on the river. Sangesland reported the spill to the USCG. Since Sangesland was headed out to the site, the USCG was short staffed and asked for a site report. Once at the site, Sangesland called the USCG back and said no spill was seen. At the site, was a crew (15 people) from the NYC Parks Dept. who were cleaning up the lot and water's edge. Mr. Brian Aucoin (718-430-18) a Conservation

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S104879841 **DIST/DIR:** 0.073 SSE **ELEVATION:** 1 **MAP ID:** E11

NAME: BRONX RIVER
ADDRESS: WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0008407 / 2005-05-03
ID/Status: 0008407
ID/Status: 325485

Specialist with the Parks Dept. explained that the city got special funding to fight the West Nile Problem and they were removing several hundred old tires from the shore area and generally cleaning the site up. To prevent any garbage from floating downstream, the NYC DEP set up a boom across the river which is cleared frequently. In addition to the garbage/tire issue, there was a break in the water main (to the on site fire hydrants) which was flooding the site and could have flushed out some surface contamination onto the river. DEP has been notified and they are trying to isolate and fix the line. On the property Sangesland found 5 aboveground petroleum storage tanks which were abandoned when the cement plant was abandoned. They all appeared to be empty for quite some time with no signs of contamination around them. They are all closed (no rainwater going in) and all appeared to be secure. The Parks Dept person said this whole area was going to be demolished and rebuilt as a park. Sangesland did not see any petroleum spillage or any obvious sources. Parks Dept. is cleaning up the site and they were asked to call the Spills Hotline if they see any type of spillage or sheen on the river."
Remarks: "caller reports sheen on water from pipe thet goes into river."

Material:
Site ID: 325485
Operable Unit ID: 828999
Operable Unit: 01
Material ID: 545915
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

SPDES

EDR ID: S108130286 **DIST/DIR:** 0.074 ESE **ELEVATION:** 20 **MAP ID:** D12

NAME: APEX SALES, TOWING & LEASING, INC.

ADDRESS: 1235 BRONX RIVER AVE.
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 01/30/2017
ID/Status: NYR00E133
ID/Status: A

SPDES:

Permit Number: NYR00E133
State-Region: 02
Expiration Date: 03/31/2012
Current Major Minor Status: Minor
Primary Facility SIC Code: 5015
State Water Body Name: BRONX RIVER
Limit Set Status Flag: Active
Total Actual Average Flow(MGD): Not reported
Total App Design Flow(MGD): Not reported
UDF1: Not reported
Lat/Long: +40.829444 / -73.882778
DMR Cognizant Official: Not reported
UDF2: Not reported
UDF3: Not reported
FIPS County Code: NY005

Non-Gov Permit Affiliation Type Desc: DMR Mailing Address
Non-Gov Permit Org Formal Name: APEX SALES TOWING AND LEASING CORP
Non-Gov Permit Street Address: APEX SALES TOWING AND LEASING CORP
Non-Gov Permit Supplemental Location: 1235 BRONX RIVER AVE
Non-Gov Permit City: BRONX
Non-Gov Permit State Code: NY
Non-Gov Permit Zip Code: 10472
Non-Gov Facility Affiliation Type Desc: Owner
Non-Gov Facility Org Formal Name: APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Street Address: APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Supplemental Location: 1235 BRONX RIVER AVE
Non-Gov Facility City: BRONX
Non-Gov Facility State Code: NY
Non-Gov Facility Zip Code: 10472
State Water Body: Not reported

UDF2: Not reported
UDF3: Not reported
FIPS County Code: NY005

Non-Gov Permit Affiliation Type Desc: Permittee
Non-Gov Permit Org Formal Name: APEX SALES TOWING AND LEASING CORP
Non-Gov Permit Street Address: 1235 BRONX RIVER AVE
Non-Gov Permit Supplemental Location: Not reported
Non-Gov Permit City: BRONX
Non-Gov Permit State Code: NY

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

SPDES

EDR ID: S108130286 **DIST/DIR:** 0.074 ESE **ELEVATION:** 20 **MAP ID:** D12

NAME: APEX SALES, TOWING & LEASING, INC.

ADDRESS: 1235 BRONX RIVER AVE.
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 01/30/2017
ID/Status: NYR00E133
ID/Status: A

Non-Gov Permit Zip Code: 10472
Non-Gov Facility Affiliation Type Desc: Owner
Non-Gov Facility Org Formal Name: APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Street Address: APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Supplemental Location: 1235 BRONX RIVER AVE
Non-Gov Facility City: BRONX
Non-Gov Facility State Code: NY
Non-Gov Facility Zip Code: 10472
State Water Body: Not reported

UDF2: Not reported
UDF3: Not reported
FIPS County Code: NY005

Non-Gov Permit Affiliation Type Desc: Not reported
Non-Gov Permit Org Formal Name: Not reported
Non-Gov Permit Street Address: Not reported
Non-Gov Permit Supplemental Location: Not reported
Non-Gov Permit City: Not reported
Non-Gov Permit State Code: Not reported
Non-Gov Permit Zip Code: Not reported
Non-Gov Facility Affiliation Type Desc: Owner
Non-Gov Facility Org Formal Name: APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Street Address: APEX SALES TOWING AND LEASING CORP
Non-Gov Facility Supplemental Location: 1235 BRONX RIVER AVE
Non-Gov Facility City: BRONX
Non-Gov Facility State Code: NY
Non-Gov Facility Zip Code: 10472
State Water Body: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S108130286 **DIST/DIR:** 0.074 ESE **ELEVATION:** 20 **MAP ID:** D12

NAME: APEX SALES, TOWING & LEASING, INC.

ADDRESS: 1235 BRONX RIVER AVE.
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0605983 / 2006-08-29
ID/Status: 0605983
ID/Status: 369262

SPILLS:
Facility ID: 0605983
Facility Type: ER
DER Facility ID: 319146
Site ID: 369262
DEC Region: 2
Spill Date: 2006-08-23
Spill Number/Closed Date: 0605983 / 2006-08-29
Spill Cause: Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: JBVOUGHT
Referred To: Not reported
Reported to Dept: 2006-08-23
CID: 27
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2006-08-24
Spill Record Last Update: 2015-12-28
Spiller Name: Not reported
Spiller Company: SALVAGE YARD
Spiller Address: 1235 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY 10472
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: "08/24/06-Vought-Off hours spill responder. Vought repsonded to spill on 8/23/06 at 21:00 and fire still in progress so site inspection not possible. Vought inspected Bronx River (separated from Apex Sales by train tracks) and no impact to Bronx River other than sheen. Sheen may also be biological but unable to tell due to lack of light. No free product or impacted wildlife noted. As per FDNY Hazamat three tanks were onsite: two (275-gallon) fuel oil and one (275-gallon) waste oil and currently tanks were not comprimised. Buildings adjacent to site were evacuated however no toxic fumes noted (other than burning cars and debris). Contact information for owner is: Apex

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S108130286 **DIST/DIR:** 0.074 ESE **ELEVATION:** 20 **MAP ID:** D12

NAME: APEX SALES, TOWING & LEASING, INC.

ADDRESS: 1235 BRONX RIVER AVE.
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0605983 / 2006-08-29
ID/Status: 0605983
ID/Status: 369262

Sales Bill Maio 718-328-7000 cell: 914-760-3831. Fire may have been started on adjacent train tracks. Vought received call from FDNY Chief Weinlein (718-999-7900) on 8/23 at 21:16pm and access to site still not possible. Vought told him that site inspection would be performed on 8/24/06 and he would be called with results. Vought called Weinlein and left message informing him that site inspection was performed and DEC's only requirement was recovery of small puddle of transmission oil (approximately 10' in diameter) in rear of property. Vought conveyed requirement to Bill Maio (owner) and owner will submit invoice and documents of cleanup (possible disposal manifest). Vought also met with Resa Dimino (Bronx River Alliance 718-430-4648) and walked River and site with her. She agreed on no spill to Bronx River and requested no further action from DEC. Vought received call from USCG (718-354-4121) and returned call and left message with DEC requirement. Vought will followup with with cleanup of puddle of transmission oil on 8/25/06. 08/29/06-Vought-received letter from Apex Sales Towing & Leasing dated 8/25/06. We have rectified all hazards to the yard at to your specifications. Enclosed please find receipt for the materials purchased to facilitate the removal of these hazards . Receipt from S&S Adsorbents and EnviroWaste Oil Recovery also included for druming and disposal of used adsorbent materials. Spill closed by Vought.
12/28/15-Vought-Received email from DEC Erin Shirkey that site is part of the Bronx River Greenway project and she was inquiring about spill status. Vought sent her copy of these spill notes and note that spill had been closed and that if she needed further assistance to let Vought know. Vought sent email that Erin, My apologies for my delay in response. The above spill was closed on August 29, 2006. I have attached the Spill Report above that has more information on the response and cleanup. I also ran the address under the NYCDOB database for alternate addresses, found that there were no others, and then searched our Spills database and found no other open or closed spills associated with the site. If you need anything else, please don t hesitate to ask. DEC Shirkey replied with thanks."

Remarks: "Caller reports a fire at a salvage yard. Fire caused the spill of the materials. No cleanup company has been contacted. FDNY is on the scene. 2nd call at same time from FF Morris Hazmat 1 FDNY at 914.552.2516 requests on call rep to call. Petty Officer Sierra of US Coast Guard req call back from reg 2 DEC Rep in ref to impact of Bronx River @ 718-354-4121 "

Material:
Site ID: 369262
Operable Unit ID: 1127104
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S108130286 **DIST/DIR:** 0.074 ESE **ELEVATION:** 20 **MAP ID:** D12

NAME: APEX SALES, TOWING & LEASING, INC.

ADDRESS: 1235 BRONX RIVER AVE.
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0605983 / 2006-08-29
ID/Status: 0605983
ID/Status: 369262

Material ID: 2116685
Material Code: 0015
Material Name: motor oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported
Site ID: 369262
Operable Unit ID: 1127104
Operable Unit: 01
Material ID: 2116686
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported
Site ID: 369262
Operable Unit ID: 1127104
Operable Unit: 01
Material ID: 2116687
Material Code: 0043A
Material Name: antifreeze
Case No.: Not reported
Material FA: Other
Quantity: Not reported
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

CBS

EDR ID: S108130286 **DIST/DIR:** 0.074 ESE **ELEVATION:** 20 **MAP ID:** D12

NAME: APEX SALES, TOWING & LEASING, INC.

ADDRESS: 1235 BRONX RIVER AVE.
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: Unregulated/Closed
ID/Status: 2-000425

CBS:
CBS Number: 2-000425
Program Type: CBS
Facility Status: Unregulated/Closed
Expiration Date: Not reported
Dec Region: 2
UTMX: 594183.86715
UTMY: 4520298.05555

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100293074 **DIST/DIR:** 0.074 ESE **ELEVATION:** 20 **MAP ID:** D13

NAME: APEX SALES, TOWING & LEASING, INC.

ADDRESS: 1235 BRONX RIVER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-610044

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated/Closed
Facility Id: 2-610044
Program Type: PBS
UTM X: 594183.86715
UTM Y: 4520298.05555
Expiration Date: N/A
Site Type: Other Wholesale/Retail Sales

Affiliation Records:
Site Id: 354506
Affiliation Type: Mail Contact
Company Name: APEX SALES, TOURING & LEASING
Contact Type: Not reported
Contact Name: RONALD MAIO
Address1: 1235 BRONX RIVER AVENUE
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10472
Country Code: 001
Phone: (718) 328-7200
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2005-10-24

Site Id: 354506
Affiliation Type: On-Site Operator
Company Name: APEX SALES, TOURING & LEASING, INC.
Contact Type: Not reported
Contact Name: RONALD MAIO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NY
Zip Code: Not reported
Country Code: 001
Phone: (718) 328-7200
EMail: Not reported
Fax Number: Not reported
Modified By: LXZIELIN
Date Last Modified: 2010-10-04

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100293074 **DIST/DIR:** 0.074 ESE **ELEVATION:** 20 **MAP ID:** D13

NAME: APEX SALES, TOWING & LEASING, INC.
Rev: 12/28/2016
ID/Status: 2-610044

ADDRESS: 1235 BRONX RIVER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Site Id: 354506
Affiliation Type: Emergency Contact
Company Name: APEX SALES, TOURING & LEASING
Contact Type: Not reported
Contact Name: RONALD MAIO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (646) 418-8628
EMail: Not reported
Fax Number: Not reported
Modified By: LXZIELIN
Date Last Modified: 2010-10-04

Site Id: 354506
Affiliation Type: Facility Owner
Company Name: APEX SALES, TOWING & LEASING
Contact Type: Not reported
Contact Name: Not reported
Address1: 1235 BRONX RIVER AVE
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10472
Country Code: 001
Phone: (718) 328-7200
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2010-10-28

Tank Info:

Tank Number: 001
Tank Id: 208508
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100293074 **DIST/DIR:** 0.074 ESE **ELEVATION:** 20 **MAP ID:** D13

NAME: APEX SALES, TOWING & LEASING, INC.

ADDRESS: 1235 BRONX RIVER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-610044

I00 - Overfill - None
L00 - Piping Leak Detection - None
A01 - Tank Internal Protection - Epoxy Liner
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
K00 - Spill Prevention - None
J00 - Dispenser - None
F00 - Pipe External Protection - None
Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 07/30/1998
Capacity Gallons: 50
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 08/20/2009
Register: True
Modified By: NRLOMBAR
Last Modified: 10/28/2010
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100343938 **DIST/DIR:** 0.074 NNE **ELEVATION:** 10 **MAP ID:** 14

NAME: LKQ HUNTS POINT AUTO PARTS
ADDRESS: 1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-611085

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated/Closed
Facility Id: 2-611085
Program Type: PBS
UTM X: 594018.45484
UTM Y: 4520553.35856
Expiration Date: N/A
Site Type: Other

Affiliation Records:
Site Id: 413846
Affiliation Type: Mail Contact
Company Name: LKQ HUNTS POINT AUTO PARTS
Contact Type: Not reported
Contact Name: LOUIS SCARNATI
Address1: 1480 SHERIDAN EXPRESSWAY
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10459
Country Code: 001
Phone: (718) 589-4444
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-05-20

Site Id: 413846
Affiliation Type: On-Site Operator
Company Name: LKQ HUNTS POINT AUTO PARTS CORP.
Contact Type: Not reported
Contact Name: LOUIS SCARNATI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 589-4444
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2013-04-26

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100343938 **DIST/DIR:** 0.074 NNE **ELEVATION:** 10 **MAP ID:** 14

NAME: LKQ HUNTS POINT AUTO PARTS
ADDRESS: 1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-611085

Site Id: 413846
Affiliation Type: Facility Owner
Company Name: LKQ HUNTS POINT AUTO PARTS CORP.
Contact Type: Not reported
Contact Name: Not reported
Address1: 500 WEST MADISON ST. STE 2800
Address2: Not reported
City: CHICAGO
State: IL
Zip Code: 60661
Country Code: 001
Phone: (312) 621-2729
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2013-04-26

Site Id: 413846
Affiliation Type: Emergency Contact
Company Name: LKQ HUNTS POINT AUTO PARTS CORP.
Contact Type: Not reported
Contact Name: ANTHONY MASI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (914) 776-5936
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-05-20

Tank Info:

Tank Number: 001
Tank Id: 228444
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100343938 **DIST/DIR:** 0.074 NNE **ELEVATION:** 10 **MAP ID:** 14

NAME: LKQ HUNTS POINT AUTO PARTS
ADDRESS: 1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-611085

E00 - Piping Secondary Containment - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K01 - Spill Prevention - Catch Basin
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
A01 - Tank Internal Protection - Epoxy Liner
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
G02 - Tank Secondary Containment - Vault (w/access)
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 03/26/2012
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 03/28/2014
Register: True
Modified By: NRLOMBAR
Last Modified: 05/20/2014
Material Name: Not reported

Tank Number: 002
Tank Id: 244397
Material Code: 0015
Common Name of Substance: Motor Oil

Equipment Records:
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K01 - Spill Prevention - Catch Basin
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
A01 - Tank Internal Protection - Epoxy Liner
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
G02 - Tank Secondary Containment - Vault (w/access)

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100343938 **DIST/DIR:** 0.074 NNE **ELEVATION:** 10 **MAP ID:** 14

NAME: LKQ HUNTS POINT AUTO PARTS
ADDRESS: 1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-611085

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 03/26/2012
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 03/28/2014
Register: True
Modified By: NRLOMBAR
Last Modified: 05/20/2014
Material Name: Not reported

Tank Number: 003
Tank Id: 248048

Equipment Records:
A01 - Tank Internal Protection - Epoxy Liner
B01 - Tank External Protection - Painted/Asphalt Coating
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K02 - Spill Prevention - Transfer Station Containment
L00 - Piping Leak Detection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 01/01/2012
Capacity Gallons: 1000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 03/28/2014
Register: True
Modified By: NRLOMBAR

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100343938 **DIST/DIR:** 0.074 NNE **ELEVATION:** 10 **MAP ID:** 14

NAME: LKQ HUNTS POINT AUTO PARTS
ADDRESS: 1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-611085

Last Modified: 05/20/2014
Material Name: Not reported

Tank Number: 004
Tank Id: 244399
Material Code: 0021
Common Name of Substance: Transmission Fluid

Equipment Records:
L00 - Piping Leak Detection - None
I01 - Overfill - Float Vent Valve
C00 - Pipe Location - No Piping
A01 - Tank Internal Protection - Epoxy Liner
B01 - Tank External Protection - Painted/Asphalt Coating
J02 - Dispenser - Suction Dispenser
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
F00 - Pipe External Protection - None
G02 - Tank Secondary Containment - Vault (w/access)
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 03/26/2012
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 01/29/2013
Register: True
Modified By: NRLOMBAR
Last Modified: 04/26/2013
Material Name: Not reported

Tank Number: OO3
Tank Id: 244398
Material Code: 0010
Common Name of Substance: Hydraulic Oil

Equipment Records:
I01 - Overfill - Float Vent Valve

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100343938 **DIST/DIR:** 0.074 NNE **ELEVATION:** 10 **MAP ID:** 14

NAME: LKQ HUNTS POINT AUTO PARTS
ADDRESS: 1460 SHERIDAN EXPRESSWAY
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-611085

L00 - Piping Leak Detection - None
C00 - Pipe Location - No Piping
J02 - Dispenser - Suction Dispenser
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
A01 - Tank Internal Protection - Epoxy Liner
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
G02 - Tank Secondary Containment - Vault (w/access)
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 03/26/2012
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 01/29/2013
Register: True
Modified By: NRLOMBAR
Last Modified: 04/26/2013
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001836332 **DIST/DIR:** 0.075 NNW **ELEVATION:** 26 **MAP ID:** F15

NAME: J & L AUTO SEV **Rev:** 12/28/2016

ADDRESS: 1471 W FARMS RD
NEW YORK, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

UST:
Id/Status: 2-259772 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 594019.27529
UTM Y: 4520670.40451
Site Type: Retail Gasoline Sales

Affiliation Records:
Site Id: 10816
Affiliation Type: Facility Owner
Company Name: ESTATE OF LOUIS ROMANO
Contact Type: Not reported
Contact Name: Not reported
Address1: 1481 W FARMS RD
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10460
Country Code: 001
Phone: (212) 328-8528
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 10816
Affiliation Type: Mail Contact
Company Name: JO-ANN UBERTINI
Contact Type: Not reported
Contact Name: Not reported
Address1: 1481 W FARMS RD
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10460
Country Code: 001
Phone: (212) 328-8528
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001836332 **DIST/DIR:** 0.075 NNW **ELEVATION:** 26 **MAP ID:** F15

NAME: J & L AUTO SEV **Rev:** 12/28/2016

ADDRESS: 1471 W FARMS RD
NEW YORK, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Site Id: 10816
Affiliation Type: On-Site Operator
Company Name: J & L AUTO SEV
Contact Type: Not reported
Contact Name: JO-ANN UBERTINI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 328-8528
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 10816
Affiliation Type: Emergency Contact
Company Name: ESTATE OF LOUIS ROMANO
Contact Type: Not reported
Contact Name: JO-ANN UBERTINI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 328-8528
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Tank Info:

Tank Number: 001
Tank ID: 18160
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001836332 **DIST/DIR:** 0.075 NNW **ELEVATION:** 26 **MAP ID:** F15

NAME: J & L AUTO SEV **Rev:** 12/28/2016

ADDRESS: 1471 W FARMS RD
NEW YORK, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
A00 - Tank Internal Protection - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G07 - Tank Secondary Containment - Excavation Liner

Tank Number: 002
Tank ID: 18161
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
G07 - Tank Secondary Containment - Excavation Liner

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001836332 **DIST/DIR:** 0.075 NNW **ELEVATION:** 26 **MAP ID:** F15

NAME: J & L AUTO SEV **Rev:** 12/28/2016

ADDRESS: 1471 W FARMS RD
NEW YORK, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

A00 - Tank Internal Protection - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 003
Tank ID: 18162
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G07 - Tank Secondary Containment - Excavation Liner

Tank Number: 004
Tank ID: 18163
Tank Status: Closed - Removed

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001836332 **DIST/DIR:** 0.075 NNW **ELEVATION:** 26 **MAP ID:** F15

NAME: J & L AUTO SEV **Rev:** 12/28/2016

ADDRESS: 1471 W FARMS RD
NEW YORK, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G07 - Tank Secondary Containment - Excavation Liner

Tank Number: 005
Tank ID: 18164
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001836332 **DIST/DIR:** 0.075 NNW **ELEVATION:** 26 **MAP ID:** F15

NAME: J & L AUTO SEV **Rev:** 12/28/2016

ADDRESS: 1471 W FARMS RD
NEW YORK, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
A00 - Tank Internal Protection - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G07 - Tank Secondary Containment - Excavation Liner

Tank Number: 006
Tank ID: 18165
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 12/01/1964
Date Tank Closed: 03/26/2003
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
G07 - Tank Secondary Containment - Excavation Liner
B00 - Tank External Protection - None

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: 1007112495 **DIST/DIR:** 0.075 NNW **ELEVATION:** 26 **MAP ID:** F16

NAME: J & A SERVICE - CLOSED
ADDRESS: 1471 W FARMS RD
BRONX, NY 10460
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9913455 / 2003-07-10
ID/Status: 9913455
ID/Status: 298823

SPILLS:
Facility ID: 9913455
Facility Type: ER
DER Facility ID: 241756
Site ID: 298823
DEC Region: 2
Spill Date: 2000-02-28
Spill Number/Closed Date: 9913455 / 2003-07-10
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: JHOCONNE
Referred To: Not reported
Reported to Dept: 2000-02-28
CID: 257
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Affected Persons
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2000-02-28
Spill Record Last Update: 2003-07-10
Spiller Name: Not reported
Spiller Company: UNKNWON
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: JIMMY FOX
Contact Phone: (212) 580-6763
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL E2MIS 130160 Feb 28, 2000 @ 10:45 Lopriore, mechanic A , reports while clean and flushing manhole # 26176 he noticed that oil was being sucked into truck. He immediately stopped cleanup. Mechanic reports approximately 1 quart of unknown oil in mud at bottom of manhole. Samples were taken and cleanup will resume as 50-499 ppm. Conduit plate (15-I-3) indicates no sewer connection. Manhole has earthen sump and Chem-lab will be notified when sample of earthen sump can be taken. Mar. 04, 2000 Cleanup completed by 00:40 hrs. by A. Guarino and E. Henn. The manhole was power washed with cleaning

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: 1007112495 **DIST/DIR:** 0.075 NNW **ELEVATION:** 26 **MAP ID:** F16

NAME: J & A SERVICE - CLOSED

ADDRESS: 1471 W FARMS RD
BRONX, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9913455 / 2003-07-10
ID/Status: 9913455
ID/Status: 298823

solution. According to A. Guarino there were no earthen sump. 400 gallons of water was removed along with 1 quart of unknown oil, which test results came back as less than 1 PPM. Tag number 24377 was removed. 03/04/00 @ 07:30 Hrs. Closed out job. 17-DEC-2002 13:40 NYSDEC Return the following question: DEC WAS GIVEN VERBAL SAMPLE RESULTS FROM CIG ON 2/28/00 AT 0500 HRS. OF 58 PPM PCB. E2MIS REPORT SAYS RESULTS ARE 1 PPM. WHY THE DISCREPANCY? This incident did not occurred until 2/28/00 at 10:45, No verbal would have been given at 05:00 on 2/28/00. NYSDEC was notified that the results of a Manhattan Electrical Distribution Incident 130079 were 58 ppm PCB by CIG R. Roach on 2/28/2000 05:18. This incidents NYS DEC spill number is 99-13455, the Manhattan incident with 58 ppm PCB is 99-13255. "
Remarks: "cleanup pending test results ref #130160"

Material:
Site ID: 298823
Operable Unit ID: 1087984
Operable Unit: 01
Material ID: 295303
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-CESQG

EDR ID: 1007112495 **DIST/DIR:** 0.075 NNW **ELEVATION:** 26 **MAP ID:** F16

NAME: J & A SERVICE - CLOSED

ADDRESS: 1471 W FARMS RD
BRONX, NY 10460
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYR000115212

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: J & A SERVICE - CLOSED
Facility address: 1471 W FARMS RD
BRONX, NY 10460
EPA ID: NYR000115212
Mailing address: W FARMS RD
BRONX, NY 10460
Contact: ROSEMARIE TRALONGO
Contact address: W FARMS RD
BRONX, NY 10460
Contact country: US
Contact telephone: (516) 227-0700
Contact email: Not reported
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: J & A SERVICE - CLOSED
Owner/operator address: W FARMS RD
BRONX, NY 10460
Owner/operator country: US
Owner/operator telephone: (516) 227-0700
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/31/1979
Owner/Op end date: Not reported

Owner/operator name: ESTATE OF LOUIS ROMANO
Owner/operator address: W FARMS RD

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-CESQG

EDR ID: 1007112495 **DIST/DIR:** 0.075 NNW **ELEVATION:** 26 **MAP ID:** F16

NAME: J & A SERVICE - CLOSED
ADDRESS: 1471 W FARMS RD
BRONX, NY 10460
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYR000115212

BRONX, NY 10460
Owner/operator country: US
Owner/operator telephone: (516) 227-0700
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/31/1979
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: J & A SERVICE - CLOSED
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/28/2003
Site name: J & A SERVICE - CLOSED
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1000889999 **DIST/DIR:** 0.080 SSE **ELEVATION:** 0 **MAP ID:** E17

NAME: NYCDOT
ADDRESS: WESTCHESTER AVE OVER
BRONX, NY 10459
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NY0000204529

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: NYCDOT
Facility address: WESTCHESTER AVE OVER
AMTRAK & CONRAIL
BRONX, NY 10459
EPA ID: NY0000204529
Mailing address: RECTOR ST - 5TH FLOOR
NEW YORK, NY 10006
Contact: ADRIAN MOSHE
Contact address: RECTOR ST - 5TH FLOOR
NEW YORK, NY 10006
Contact country: US
Contact telephone: (718) 542-2318
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NYCDOT
Owner/operator address: 2 RECTOR ST - 5TH FLOOR
NEW YORK, NY 10006
Owner/operator country: US
Owner/operator telephone: (212) 788-1792
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYCDOT
Owner/operator address: 2 RECTOR ST - 5TH FLOOR
NEW YORK, NY 10006
Owner/operator country: US
Owner/operator telephone: (212) 788-1792
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1000889999 **DIST/DIR:** 0.080 SSE **ELEVATION:** 0 **MAP ID:** E17

NAME: NYCDOT

ADDRESS: WESTCHESTER AVE OVER
BRONX, NY 10459
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NY0000204529

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: NYCDOT
Classification: Not a generator, verified

Date form received by agency: 04/14/1994
Site name: NYCDOT
Classification: Not a generator, verified

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S106012861 **DIST/DIR:** 0.080 NNW **ELEVATION:** 29 **MAP ID:** F18

NAME: ABANDONED SERVICE STATION
ADDRESS: 1471 WEST FARM RD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0300164 / 2003-09-08
ID/Status: 0300164
ID/Status: 85601

SPILLS:
Facility ID: 0300164
Facility Type: ER
DER Facility ID: 78629
Site ID: 85601
DEC Region: 2
Spill Date: 2003-04-04
Spill Number/Closed Date: 0300164 / 2003-09-08
Spill Cause: Equipment Failure
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: JBVOUGHT
Referred To: Not reported
Reported to Dept: 2003-04-04
CID: 211
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: True
Remediation Phase: 0
Date Entered In Computer: 2003-04-04
Spill Record Last Update: 2003-09-08
Spiller Name: ROLAND FISHER
Spiller Company: ABANDONED SERVICE STATION
Spiller Address: 1471 W FARM RD
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: ROLAND FISHER
Contact Phone: (631) 249-3150
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT DEC Sigona sent letter notification for contaminated soil investigation on April 4, 2003. 4/8/2003-Vought-Received message from Roland Fischer (Tyree - 631-249-3150x352). Vought returned call and left message to return call. Vought received another message and again returned call and spoke with Roland. 6 (550-gallon) UST's were removed. Contaminated soil found at dispenser island. Tyree will excavate contaminated soil and take endpoint samples. Tanks in vaulted concrete on top of bedrock. Lines to be excavated are 20' long. Sidewalls will be composited and two grab samples from bottom

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S106012861 **DIST/DIR:** 0.080 NNW **ELEVATION:** 29 **MAP ID:** F18

NAME: ABANDONED SERVICE STATION
ADDRESS: 1471 WEST FARM RD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0300164 / 2003-09-08
ID/Status: 0300164
ID/Status: 85601

of trench. Tank closure report will be sent including site plan, analyticals and disposal manifests. 4/24/2003-Vought-Received message from Roland on 4/14. Vought returned call on 4/24 and left message with Roland to return call with updates. 5/5/2003-Vought-Spoke with Roland and soil contamination found (30'x 20' excavation was performed, bottom was bedrock). One sample had xylene at 4000ppb. Roland will send tank closure report and spill closure report including site plan, disposal manifest and analyticals. 7/18/2003-Vought-Spoke with Roland Fisher and report is being sent to NYSDEC today. 9/8/2003-Vought-UST Closure Report-May 2003-Tyree Organization-Six (550-gallon) gasoline USTs were removed in 3/03. Groundwater not encountered in excavation but suspected at depth of 60' and flowing to the southwest. Bedrock at depth of 8' below grade. USTs were in a vault constructed by direct pour of concrete onto the bedrock . Endpoint samples were collected from sidewalls and not collected from bottom due to bedrock. Soil analyticals show up to 3380ppb toluene(south wall), 70900ppb xylene(south wall) and 24000ppb napthalene(south wall). Tyree returned to site to peform additional soil removal under the former pump island area and removed 50 tons of soil. Seven subsequent soil endpoint samples were collected and soil analyticals showed two exceedances at 3050ppb xylene(west wall) and 3320ppb 1,3,5-trimethylbenzene(west wall). Spill closed by Vought as per Rommel due to 60' suspected depth to groundwater and excavation to bedrock (and hence no sensitive receptors). Spill closed by Vought. "

Remarks: "caller did tank removal and test results show soil contamination caller believes line failed causing release"

Material:
Site ID: 85601
Operable Unit ID: 866224
Operable Unit: 01
Material ID: 508245
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S110306923 **DIST/DIR:** 0.085 East **ELEVATION:** 22 **MAP ID:** D19

NAME: 215315; 1243 BRONX RIVER AVENUE
ADDRESS: 1243 BRONX RIVER AVENUE
NEW YORK, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0913981 / 2009-01-27
ID/Status: 0913981
ID/Status: 432904

SPILLS:
Facility ID: 0913981
Facility Type: ER
DER Facility ID: 386923
Site ID: 432904
DEC Region: 2
Spill Date: 2009-01-27
Spill Number/Closed Date: 0913981 / 2009-01-27
Spill Cause: Equipment Failure
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: DMPOKRZY
Referred To: Not reported
Reported to Dept: 2009-03-30
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: Not reported
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2010-04-16
Spill Record Last Update: 2010-04-16
Spiller Name: ERT DESK
Spiller Company: CON EDISON
Spiller Address: 5030 BROADWAY
Spiller City,St,Zip: New York, NY
Spiller Company: 001
Contact Name: ERT DESK
Contact Phone: (212) 580-8383
DEC Memo: ""
Remarks: ""

Material:
Site ID: 432904
Operable Unit ID: 1183815
Operable Unit: 01
Material ID: 2178228
Material Code: 0066A
Material Name: unknown petroleum

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S110306923 **DIST/DIR:** 0.085 East **ELEVATION:** 22 **MAP ID:** D19

NAME: 215315; 1243 BRONX RIVER AVENUE

ADDRESS: 1243 BRONX RIVER AVENUE
NEW YORK, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0913981 / 2009-01-27
ID/Status: 0913981
ID/Status: 432904

Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107408359 **DIST/DIR:** 0.086 SSW **ELEVATION:** 37 **MAP ID:** C20

NAME: BRONX RIVER

ADDRESS: WESTCHESTER AVE/EDGEWATER
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0506235 / 2005-08-22
ID/Status: 0506235
ID/Status: 351408

SPILLS:
Facility ID: 0506235
Facility Type: ER
DER Facility ID: 298670
Site ID: 351408
DEC Region: 2
Spill Date: 2005-08-20
Spill Number/Closed Date: 0506235 / 2005-08-22
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. No DEC Response. No corrective action required.
SWIS: 0301
Investigator: RWAUSTIN
Referred To: Not reported
Reported to Dept: 2005-08-20
CID: 72
Water Affected: BRONX RIVER
Spill Source: Unknown
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2005-08-20
Spill Record Last Update: 2005-08-22
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: ***Update***, ZZ
Spiller Company: 001
Contact Name: ANNMARIE RUNFOLA
Contact Phone: (917) 743-7352
DEC Memo: "8/22/05 - Austin - On 8/20, I spoke with Anne Marie Runfolo (sp?) of the Bronx River Alliance, who had called NYC Parks about a sheen along the western shoreline of the Bronx River, between the Cross Bronx X-way and Westchester Ave. (upland area is a City Park know as Concrete Plant Park.)She also indicated that there was a pipe discharging from the eastern shoreline of the river, across from the park. The pipeline was located at the northern parking lot of ABC Carpets, on Bronx River Ave. She had seen these events while on a canoe trip on the river. I then went to the site, and investigated the complaints. No sheen was observed in the river, but there was

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107408359 **DIST/DIR:** 0.086 SSW **ELEVATION:** 37 **MAP ID:** C20

NAME: BRONX RIVER
ADDRESS: WESTCHESTER AVE/EDGEWATER
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0506235 / 2005-08-22
ID/Status: 0506235
ID/Status: 351408

leaf matter floating on the water, indicating a storm sewer discharge from the storm event that had occurred on 8/19. I also observed the discharge on the eastern shoreline, which appeared momentarily, and then stopped. I went to the parking lot by ABC Carpet, but by them there was no floatables/foam from the discharge, so could not locate the pipe amongst the brushy and inacessible shoreline. Will refer latter complaint to DOW/DEP for outfall investigation. Spill closed - end "
Remarks: "Oil slick found on shoreline of river, going into river with tide."

Material:
Site ID: 351408
Operable Unit ID: 1108926
Operable Unit: 01
Material ID: 2098901
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U003394683 **DIST/DIR:** 0.086 East **ELEVATION:** 24 **MAP ID:** D21

NAME: 1405 COLGATE AVENUE

ADDRESS: 1405 COLGATE AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-467359

AST:
Region: STATE
DEC Region: 2
Site Status: Inactive
Facility Id: 2-467359
Program Type: PBS
UTM X: 595355.35362
UTM Y: 4521050.17584
Expiration Date: N/A
Site Type: Unknown

Affiliation Records:
Site Id: 20324
Affiliation Type: Facility Owner
Company Name: NYC HOUSING PRESERV & DEVEL
Contact Type: Not reported
Contact Name: Not reported
Address1: 2089-2091 ARTHUR AVENUE
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10457
Country Code: 001
Phone: (718) 295-2178
EMail: Not reported
Fax Number: Not reported
Modified By: JAAVERSA
Date Last Modified: 2014-02-21

Site Id: 20324
Affiliation Type: Mail Contact
Company Name: NYC HOUSING PRESERV & DEVEL
Contact Type: Not reported
Contact Name: Not reported
Address1: 2089-2091 ARTHUR AVENUE
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10457
Country Code: 001
Phone: (718) 295-2178
EMail: Not reported
Fax Number: Not reported
Modified By: JAAVERSA
Date Last Modified: 2014-02-21

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U003394683 **DIST/DIR:** 0.086 East **ELEVATION:** 24 **MAP ID:** D21

NAME: 1405 COLGATE AVENUE
ADDRESS: 1405 COLGATE AVENUE
BRONX, NY 10472
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-467359

Site Id: 20324
Affiliation Type: Emergency Contact
Company Name: NYC HOUSING PRESERV & DEVEL
Contact Type: Not reported
Contact Name: DAVID RUBINOVITZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 806-8217
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Site Id: 20324
Affiliation Type: On-Site Operator
Company Name: 1405 COLGATE AVENUE
Contact Type: Not reported
Contact Name: PIJUSH LODH
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 806-8091
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 2004-03-04

Tank Info:

Tank Number: 001
Tank Id: 37001
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U003394683 **DIST/DIR:** 0.086 East **ELEVATION:** 24 **MAP ID:** D21

NAME: 1405 COLGATE AVENUE

ADDRESS: 1405 COLGATE AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-467359

A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
L09 - Piping Leak Detection - Exempt Suction Piping
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Tank Converted to Non-Regulated Use
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 5000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: CGFREEDM
Last Modified: 04/18/2011
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107409212 **DIST/DIR:** 0.086 SSW **ELEVATION:** 37 **MAP ID:** C22

NAME: VAULT 1744

ADDRESS: EDGEWATER RD AND WESTCHESTER AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0507685 / 2007-05-03
ID/Status: 0507685
ID/Status: 353141

SPILLS:
Facility ID: 0507685
Facility Type: ER
DER Facility ID: 300436
Site ID: 353141
DEC Region: 2
Spill Date: 2005-09-27
Spill Number/Closed Date: 0507685 / 2007-05-03
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: GDBREEN
Referred To: Not reported
Reported to Dept: 2005-09-27
CID: 77
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2005-09-27
Spill Record Last Update: 2007-05-03
Spiller Name: ERT DESK
Spiller Company: CON EDISON
Spiller Address: 4 IRVING PLACE
Spiller City,St,Zip: MANHATTAN, NY 10003
Spiller Company: 999
Contact Name: ERT DESK'
Contact Phone: (212) 580-8383
DEC Memo: "05/03/07 - See e-docs for Con Ed report detailing cleanup and closure. 161244. 27-Sep-2005 04:45 hrs. FOD Operating Supervisor, Bill Reschke (11649) while placing protective grounds on another location near V-1744, located e/s Edgewater Road 985' s/o Westchester Ave, Bronx, NY reports finding ~ 10 gallons of dielectric fluid has leaked out of an abandoned Pad Mounted transformer (V-1744) onto asphalt and soil. No fire/smoke is/was involved. No sewers/waterways were affected. There were no injuries. This is on the property of theTransit Mix Concrete Company that has gone out of business. An area of asphalt ~ 15' x 75' is affected. Additional crews have spread

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107409212 **DIST/DIR:** 0.086 SSW **ELEVATION:** 37 **MAP ID:** C22

NAME: VAULT 1744

ADDRESS: EDGEWATER RD AND WESTCHESTER AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0507685 / 2007-05-03
ID/Status: 0507685
ID/Status: 353141

absorbant speedi-dri over the entire area to absorb the oil. A puddle (25' x 15') of oil & water has gathered at the bottom of the hill. An 80' piece of absorbant boom has been deployed around the pool to contain it. A oil sample has been taken for PCB on chain of custudy (ee-04778). An environmental tag #43612 has been placed on the pad mount transformer. The clean up will continue as more crews are assembled at the start of the 7-3 shift. L Fischer 55784 "

Remarks: "ABANDONED TRANSFORMER, FAULTY EQUIPMENT. NO TO 5 QUESTION. CLEAN-UP IS IN PROGRESS. 161244."

Material:
Site ID: 353141
Operable Unit ID: 1110608
Operable Unit: 01
Material ID: 2100645
Material Code: 0541A
Material Name: dielectric fluid
Case No.: Not reported
Material FA: Petroleum
Quantity: 10.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-CESQG

EDR ID: 1010566479 **DIST/DIR:** 0.086 West **ELEVATION:** 35 **MAP ID:** 23

NAME: NYCHA - WEST FARMS ROAD REHAB

ADDRESS: 1323 W FARMS RD
BRONX, NY 10455
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYR000151274

RCRA-CESQG:
Date form received by agency: 10/16/2007
Facility name: NYCHA - WEST FARMS ROAD REHAB
Facility address: 1323 W FARMS RD
BRONX, NY 10455
EPA ID: NYR000151274
Mailing address: 49TH AVE
NYCHA
LONG ISLAND CITY, NY 11101
Contact: ANTHONY N SOLOMITA
Contact address: 49TH AVE NYCHA
LONG ISLAND CITY, NY 11101
Contact country: US
Contact telephone: (718) 707-5731
Contact email: 7187075266
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: NEW YORK CITY HOUSING AUTHORITY
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: 08/31/1986
Owner/Op end date: Not reported

Owner/operator name: NEW YORK CITY HOUSING AUTHORITY

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-CESQG

EDR ID: 1010566479 **DIST/DIR:** 0.086 West **ELEVATION:** 35 **MAP ID:** 23

NAME: NYCHA - WEST FARMS ROAD REHAB

ADDRESS: 1323 W FARMS RD
BRONX, NY 10455
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYR000151274

Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: 08/31/1986
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 10/15/2007
Site name: NYCHA - WEST FARMS ROAD REHAB
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102446711 **DIST/DIR:** 0.087 SSW **ELEVATION:** 20 **MAP ID:** C24

NAME: SHERATON EXPRESSWAY
ADDRESS: SERVICE RD&WESTCHESTER AV
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9611127 / 1998-06-03
ID/Status: 9611127
ID/Status: 163422

SPILLS:
Facility ID: 9611127
Facility Type: ER
DER Facility ID: 137845
Site ID: 163422
DEC Region: 2
Spill Date: 1996-12-09
Spill Number/Closed Date: 9611127 / 1998-06-03
Spill Cause: Traffic Accident
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: JHOCONNE
Referred To: Not reported
Reported to Dept: 1996-12-09
CID: 211
Water Affected: Not reported
Spill Source: Commercial Vehicle
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1996-12-09
Spill Record Last Update: 1998-06-03
Spiller Name: Not reported
Spiller Company: CON ED
Spiller Address: 4 IRVING PLACE
Spiller City,St,Zip: NEW YORK, NY 10003-
Spiller Company: 001
Contact Name: PAT MCHUGH
Contact Phone: (212) 580-6763
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL "
Remarks: "OVER TURNED BUCKET TRUCK CAUSED PRODUCT TO SPILL / CLEAN UP CREW ON WAY"

Material:
Site ID: 163422
Operable Unit ID: 1039156
Operable Unit: 01
Material ID: 566757
Material Code: 0010

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102446711 **DIST/DIR:** 0.087 SSW **ELEVATION:** 20 **MAP ID:** C24

NAME: SHERATON EXPRESSWAY
ADDRESS: SERVICE RD&WESTCHESTER AV
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9611127 / 1998-06-03
ID/Status: 9611127
ID/Status: 163422

Material Name: hydraulic oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 2.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S108636059 **DIST/DIR:** 0.087 SSW **ELEVATION:** 20 **MAP ID:** C25

NAME: WESTCHESTER OFF RAMP
ADDRESS: SHERIDAN EXPRESSWAY
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0700426 / 2007-04-13
ID/Status: 0700426
ID/Status: 379768

SPILLS:
Facility ID: 0700426
Facility Type: ER
DER Facility ID: 329261
Site ID: 379768
DEC Region: 2
Spill Date: 2007-04-13
Spill Number/Closed Date: 0700426 / 2007-04-13
Spill Cause: Traffic Accident
Spill Class: Not reported
SWIS: 0301
Investigator: jbvought
Referred To: Not reported
Reported to Dept: 2007-04-13
CID: 444
Water Affected: Not reported
Spill Source: Commercial Vehicle
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2007-04-13
Spill Record Last Update: 2007-04-13
Spiller Name: Not reported
Spiller Company: CARDING SANITATION
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: ISABELLA CARDING
Contact Phone: (718) 824-8246
DEC Memo: "04/13/07-Vought-Off hours responder. Vought called and spoke to FF Sanacore and spill did enter catch basin and DEP notified. Spill cleaned using speedy dry. Small impact to drain but no adjacent waterways."
Remarks: "GARBAGE TRUCK ROLLED OVER AND SPILLED DIESEL- STORM DRAIN HAS BEEN DIKED OFF"

Material:
Site ID: 379768
Operable Unit ID: 1137259
Operable Unit: 01
Material ID: 2127212

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S108636059 **DIST/DIR:** 0.087 SSW **ELEVATION:** 20 **MAP ID:** C25

NAME: WESTCHESTER OFF RAMP
ADDRESS: SHERIDAN EXPRESSWAY
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0700426 / 2007-04-13
ID/Status: 0700426
ID/Status: 379768

Material Code: 0008
Material Name: diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 30.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100395519 **DIST/DIR:** 0.093 SW **ELEVATION:** 37 **MAP ID:** G26

NAME: SHERIDAN GARAGE CORP.

ADDRESS: 1040 FREEMAN STREET
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-612337

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-612337
Program Type: PBS
UTM X: 593871.62170
UTM Y: 4520319.73400
Expiration Date: 12/30/2019
Site Type: Auto Service/Repair (No Gasoline Sales)

Affiliation Records:
Site Id: 502992
Affiliation Type: Facility Owner
Company Name: BRADFORD SWETT MGMT LLC
Contact Type: Not reported
Contact Name: Not reported
Address1: 2723 LURTING AVE
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10469
Country Code: 001
Phone: (718) 378-7688
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-12-30

Site Id: 502992
Affiliation Type: Mail Contact
Company Name: SHERIDAN GARAGE CORP.
Contact Type: Not reported
Contact Name: GUILLERMINA MARTINEZ
Address1: 1040 FREEMAN STREET
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10459
Country Code: 001
Phone: (718) 378-7688
EMail: SHERIDANCORP@GMAIL.COM
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-12-30

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100395519 **DIST/DIR:** 0.093 SW **ELEVATION:** 37 **MAP ID:** G26

NAME: SHERIDAN GARAGE CORP.

ADDRESS: 1040 FREEMAN STREET
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-612337

Site Id: 502992
Affiliation Type: On-Site Operator
Company Name: SHERIDAN GARAGE CORP.
Contact Type: Not reported
Contact Name: GUILLERMINA MARTINEZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 378-7688
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-12-16

Site Id: 502992
Affiliation Type: Emergency Contact
Company Name: BRADFORD SWETT MGMT LLC
Contact Type: Not reported
Contact Name: GUILLERMINA MARTINEZ
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 378-7688
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-12-16

Tank Info:

Tank Number: 001
Tank Id: 253922

Equipment Records:
G01 - Tank Secondary Containment - Diking (Aboveground)
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
K01 - Spill Prevention - Catch Basin

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100395519 **DIST/DIR:** 0.093 SW **ELEVATION:** 37 **MAP ID:** G26

NAME: SHERIDAN GARAGE CORP.

ADDRESS: 1040 FREEMAN STREET
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-612337

D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 01/01/2000
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NRLOMBAR
Last Modified: 12/30/2014
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-SQG

EDR ID: 1000393855 **DIST/DIR:** 0.094 SE **ELEVATION:** 20 **MAP ID:** H27

NAME: LETTERA SIGN & ELECTRIC CO INC
ADDRESS: 1209 BRONX RIVER AVE
BRONX, NY 10472
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYD001345529

RCRA-SQG:
Date form received by agency: 01/01/2007
Facility name: LETTERA SIGN & ELECTRIC CO INC
Facility address: 1209 BRONX RIVER AVE
BRONX, NY 10472
EPA ID: NYD001345529
Mailing address: BRONX RIVER AVE
BRONX, NY 10472
Contact: Not reported
Contact address: BRONX RIVER AVE
BRONX, NY 10472
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: WEST SIDE NEON SIGN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: WEST SIDE NEON SIGN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-SQG

EDR ID: 1000393855 **DIST/DIR:** 0.094 SE **ELEVATION:** 20 **MAP ID:** H27

NAME: LETTERA SIGN & ELECTRIC CO INC
ADDRESS: 1209 BRONX RIVER AVE
BRONX, NY 10472
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYD001345529

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: LETTERA SIGN & ELECTRIC CO INC
Classification: Small Quantity Generator

Date form received by agency: 03/24/1995
Site name: LETTERA SIGN & ELECTRIC CO INC
Classification: Not a generator, verified

Date form received by agency: 07/10/1987
Site name: LETTERA SIGN & ELECTRIC CO INC
Classification: Small Quantity Generator

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-SQG

EDR ID: 1000393855 **DIST/DIR:** 0.094 SE **ELEVATION:** 20 **MAP ID:** H27

NAME: LETTERA SIGN & ELECTRIC CO INC
ADDRESS: 1209 BRONX RIVER AVE
BRONX, NY 10472
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYD001345529

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/19/1991
Date achieved compliance: 05/03/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/14/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/13/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/03/1995
Evaluation lead agency: State

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U000395117 **DIST/DIR:** 0.096 West **ELEVATION:** 37 **MAP ID:** 28

NAME: WEST FARMS ESTATES **Rev:** 12/28/2016

ADDRESS: 1310 WEST FARMS ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

UST:
Id/Status: 2-092606 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 593833.14552
UTM Y: 4520429.93918
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 2397
Affiliation Type: Facility Owner
Company Name: WEST FARMS ESTATES % METROPOLITAN REALTY
Contact Type: Not reported
Contact Name: Not reported
Address1: 60 CUTTERMILL ROAD, SUITE 200
Address2: Not reported
City: GREAT NECK
State: NY
Zip Code: 11021
Country Code: 001
Phone: (212) 835-9040
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-08-15

Site Id: 2397
Affiliation Type: Mail Contact
Company Name: 60 CUTTERMILL ROAD
Contact Type: Not reported
Contact Name: SCOTT JAFFEE
Address1: SUITE 200
Address2: Not reported
City: GREAT NECK
State: NY
Zip Code: 11021
Country Code: 001
Phone: (212) 835-9040
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2014-08-15

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U000395117 **DIST/DIR:** 0.096 West **ELEVATION:** 37 **MAP ID:** 28

NAME: WEST FARMS ESTATES **Rev:** 12/28/2016

ADDRESS: 1310 WEST FARMS ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Site Id: 2397
Affiliation Type: On-Site Operator
Company Name: WEST FARMS ESTATES
Contact Type: Not reported
Contact Name: METROPOLITAN REALTY GROUP
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 835-9040
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2008-02-15

Site Id: 2397
Affiliation Type: Emergency Contact
Company Name: W FARMS EST CO. C/O METROPOLITAN RLTY GROUP.
Contact Type: Not reported
Contact Name: SCOTT JAFFEE
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (212) 835-9040
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2008-02-15

Tank Info:

Tank Number: 001
Tank ID: 4237
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 20000
Install Date: 12/01/1979
Date Tank Closed: 07/25/2014
Registered: True

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U000395117 **DIST/DIR:** 0.096 West **ELEVATION:** 37 **MAP ID:** 28

NAME: WEST FARMS ESTATES **Rev:** 12/28/2016

ADDRESS: 1310 WEST FARMS ROAD
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 21
Date Test: 01/08/2008
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 08/15/2014

Equipment Records:
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
L00 - Piping Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I05 - Overfill - Vent Whistle

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: U000395537 **DIST/DIR:** 0.099 WSW **ELEVATION:** 46 **MAP ID:** 29

NAME: AMBUTRANS HOLDING CORP.

ADDRESS: 1028 FREEMAN STREET
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0302597 / 2006-04-10
ID/Status: 0302597
ID/Status: 207170

SPILLS:
Facility ID: 0302597
Facility Type: ER
DER Facility ID: 171947
Site ID: 207170
DEC Region: 2
Spill Date: 2003-06-11
Spill Number/Closed Date: 0302597 / 2006-04-10
Spill Cause: Other
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: jdjarrat
Referred To: Not reported
Reported to Dept: 2003-06-11
CID: 257
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Tank Tester
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2003-06-11
Spill Record Last Update: 2006-04-10
Spiller Name: RON OGRADY
Spiller Company: MEDEX
Spiller Address: 1028 FREEMAN STREET
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: RON OGRADY
Contact Phone: (718) 617-1522
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL Sangesland DDO Sent TTF letter modified to read Line Test Failure 12/10/03 mt/// Transferred from Tipple to Rommel 7/15/05 Transferred to Jarratt (co) Fenley & Nicol contacted about latest status of line failure - awaiting response. 10/3/05 Brian McCabe of Fenley & Nicol contacted for information. (631) 586-4900 ext. 191 2/27/06 Igor Goldstein of GC Engineering will remove tank and file report. 4/10/06 Report received. Spill closed."
Remarks: "line test failure"

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: U000395537 **DIST/DIR:** 0.099 WSW **ELEVATION:** 46 **MAP ID:** 29

NAME: AMBUTRANS HOLDING CORP.

ADDRESS: 1028 FREEMAN STREET
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0302597 / 2006-04-10
ID/Status: 0302597
ID/Status: 207170

Material:
Site ID: 207170
Operable Unit ID: 870332
Operable Unit: 01
Material ID: 507065
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U000395537 **DIST/DIR:** 0.099 WSW **ELEVATION:** 46 **MAP ID:** 29

NAME: AMBUTRANS HOLDING CORP. **Rev:** 12/28/2016

ADDRESS: 1028 FREEMAN STREET
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

UST:
Id/Status: 2-110582 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 593876.96892
UTM Y: 4520330.13083
Site Type: Trucking/Transportation/Fleet Operation

Affiliation Records:
Site Id: 3392
Affiliation Type: Facility Owner
Company Name: AMBUTRANS HOLDING CORP.
Contact Type: Not reported
Contact Name: JOHN WEIR
Address1: 1028 FREEMAN STREET
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10459
Country Code: 001
Phone: (631) 317-4786
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2008-01-04

Site Id: 3392
Affiliation Type: Mail Contact
Company Name: AMBUTRANS HOLDING CORP.
Contact Type: Not reported
Contact Name: JOHN WEIR
Address1: 1028 FREEMAN STREET
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10459
Country Code: 001
Phone: (631) 317-4786
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2008-01-04

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U000395537 **DIST/DIR:** 0.099 WSW **ELEVATION:** 46 **MAP ID:** 29

NAME: AMBUTRANS HOLDING CORP. **Rev:** 12/28/2016

ADDRESS: 1028 FREEMAN STREET
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Site Id: 3392
Affiliation Type: On-Site Operator
Company Name: AMBUTRANS HOLDING CORP.
Contact Type: Not reported
Contact Name: MEDICAL EXPRESS AMBULANCE
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (631) 317-4786
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2008-01-04

Site Id: 3392
Affiliation Type: Emergency Contact
Company Name: AMBUTRANS HOLDING CORP.
Contact Type: Not reported
Contact Name: JOHN WEIR
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (631) 317-4786
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2008-01-04

Tank Info:

Tank Number: 001
Tank ID: 4845
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 4000
Install Date: 05/01/1985
Date Tank Closed: 03/01/2006
Registered: True

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U000395537 **DIST/DIR:** 0.099 WSW **ELEVATION:** 46 **MAP ID:** 29

NAME: AMBUTRANS HOLDING CORP. **Rev:** 12/28/2016

ADDRESS: 1028 FREEMAN STREET
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 00
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 01/04/2008

Equipment Records:
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
I01 - Overfill - Float Vent Valve
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-SQG

EDR ID: 1004755785 **DIST/DIR:** 0.102 NW **ELEVATION:** 38 **MAP ID:** I30

NAME: NYCSCA - PUBLIC SCHOOL 66

ADDRESS: 1001 JENNINGS ST
BRONX, NY 10460
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NY0000375709

RCRA-SQG:
Date form received by agency: 03/20/2009
Facility name: NYCSCA - PUBLIC SCHOOL 66
Facility address: 1001 JENNINGS ST
BRONX, NY 10460
EPA ID: NY0000375709
Mailing address: E SECOND ST
SCOTCH PLAINS, NJ 07076
Contact: GARY PALLADINO
Contact address: E SECOND ST
SCOTCH PLAINS, NJ 07076
Contact country: US
Contact telephone: (908) 322-3000
Contact email: ABATECH@VERIZON.NET
EPA Region: 02
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NYC BOARD OF EDUCATION
Owner/operator address: 28-11 QUEENS PLZ N
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: (718) 349-5600
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYCSCA
Owner/operator address: THOMPSON AVE
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 09/10/1962
Owner/Op end date: Not reported

Owner/operator name: GARY PALLADINO

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-SQG

EDR ID: 1004755785 **DIST/DIR:** 0.102 NW **ELEVATION:** 38 **MAP ID:** I30

NAME: NYCSCA - PUBLIC SCHOOL 66
ADDRESS: 1001 JENNINGS ST
BRONX, NY 10460
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NY0000375709

Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: 08/30/2008
Owner/Op end date: Not reported

Owner/operator name: NYC BOARD OF EDUCATION
Owner/operator address: 28-11 QUEENS PLZ N
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: (718) 349-5600
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 01/01/2007
Site name: NYC BD OF ED - PUBLIC SCHOOL 66 BRONX
Classification: Not a generator, verified

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-SQG

EDR ID: 1004755785 **DIST/DIR:** 0.102 NW **ELEVATION:** 38 **MAP ID:** I30

NAME: NYCSCA - PUBLIC SCHOOL 66

ADDRESS: 1001 JENNINGS ST
BRONX, NY 10460
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NY0000375709

Date form received by agency: 01/01/2006
Site name: NYC BD OF ED - PUBLIC SCHOOL 66 BRONX
Classification: Not a generator, verified

Date form received by agency: 07/27/1995
Site name: NYC BD OF ED - PUBLIC SCHOOL 66 BRONX
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100173627 **DIST/DIR:** 0.102 NW **ELEVATION:** 38 **MAP ID:** I31

NAME: PUBLIC SCHOOL 66 - BRONX (X066)
ADDRESS: 1001 JENNINGS STREET
BRONX, NY 10460
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-604868

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-604868
Program Type: PBS
UTM X: 593837.21456
UTM Y: 4520622.78487
Expiration Date: 12/04/2020
Site Type: School

Affiliation Records:
Site Id: 26737
Affiliation Type: On-Site Operator
Company Name: PUBLIC SCHOOL 66 - BRONX (X066)
Contact Type: Not reported
Contact Name: TONI CUBI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 589-5696
EMail: Not reported
Fax Number: Not reported
Modified By: NTFREEMA
Date Last Modified: 2015-09-28

Site Id: 26737
Affiliation Type: Mail Contact
Company Name: NEW YORK CITY DEPT. OF EDUCATION
Contact Type: Not reported
Contact Name: MUNENDRA SHARMA
Address1: FIELD OPERATIONS-FUEL DIVISION
Address2: 44-36 VERNON BOULEVARD
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 349-5752
EMail: MSHARMA@SCHOOLS.NYC.GOV
Fax Number: Not reported
Modified By: MRBARROW
Date Last Modified: 2016-05-09

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100173627 **DIST/DIR:** 0.102 NW **ELEVATION:** 38 **MAP ID:** I31

NAME: PUBLIC SCHOOL 66 - BRONX (X066)
ADDRESS: 1001 JENNINGS STREET
BRONX, NY 10460
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-604868

Site Id: 26737
Affiliation Type: Facility Owner
Company Name: NEW YORK CITY DEPT. OF EDUCATION
Contact Type: MANAGER, FUEL DIVISION
Contact Name: MUNENDRA SHARMA
Address1: 44-36 VERNON BOULEVARD
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 349-5752
EMail: MSHARMA@SCHOOLS.NYC.GOV
Fax Number: Not reported
Modified By: MRBARROW
Date Last Modified: 2016-05-23

Site Id: 26737
Affiliation Type: Emergency Contact
Company Name: NEW YORK CITY DEPT. OF EDUCATION
Contact Type: Not reported
Contact Name: KEN MAHADEO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (646) 210-7918
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2016-10-13

Tank Info:

Tank Number: 001
Tank Id: 59035
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
L00 - Piping Leak Detection - None
I02 - Overfill - High Level Alarm

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100173627 **DIST/DIR:** 0.102 NW **ELEVATION:** 38 **MAP ID:** I31

NAME: PUBLIC SCHOOL 66 - BRONX (X066)

ADDRESS: 1001 JENNINGS STREET
BRONX, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-604868

A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
C01 - Pipe Location - Aboveground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
G02 - Tank Secondary Containment - Vault (w/access)
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 05/01/2000
Capacity Gallons: 10000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NTFREEMA
Last Modified: 09/28/2015
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: U001834390 **DIST/DIR:** 0.106 SW **ELEVATION:** 39 **MAP ID:** G32

NAME: FBHC
ADDRESS: 1 WEST FARMS ROAD
BRONX, NY 10460
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9601923 / 1996-05-09
ID/Status: 9601923
ID/Status: 60333

SPILLS:
Facility ID: 9601923
Facility Type: ER
DER Facility ID: 58917
Site ID: 60333
DEC Region: 2
Spill Date: 1996-05-08
Spill Number/Closed Date: 9601923 / 1996-05-09
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: KATZ
Referred To: Not reported
Reported to Dept: 1996-05-08
CID: 323
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Affected Persons
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1996-05-08
Spill Record Last Update: 1996-05-24
Spiller Name: UNKNOWN
Spiller Company: Unknown
Spiller Address: UNKNOWN
Spiller City,St,Zip: UNKNOWN, NY
Spiller Company: 999
Contact Name: SAL MAZELLA
Contact Phone: (718) 579-1324
DEC Memo: ""
Remarks: "FIRE DEPT ON SCENE ATTEMPTING FIND THE SOURCE OF THE SPILL. IN THE BASEMENT OF THE RESIDENCE."

Material:
Site ID: 60333
Operable Unit ID: 1029520
Operable Unit: 01
Material ID: 351718
Material Code: 0066A
Material Name: unknown petroleum

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: U001834390 **DIST/DIR:** 0.106 SW **ELEVATION:** 39 **MAP ID:** G32

NAME: FBHC
ADDRESS: 1 WEST FARMS ROAD
BRONX, NY 10460
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9601923 / 1996-05-09
ID/Status: 9601923
ID/Status: 60333

Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001834390 **DIST/DIR:** 0.106 SW **ELEVATION:** 39 **MAP ID:** G32

NAME: FBHC **Rev:** 12/28/2016

ADDRESS: 1 WEST FARMS ROAD
BRONX, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

UST:
Id/Status: 2-244635 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: N/A
UTM X: 593666.25000
UTM Y: 4520253.00000
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 9480
Affiliation Type: Facility Owner
Company Name: WEST FARMS NEIGHBORHOOD HOUSING DEV. FUND CO., INC
Contact Type: DIRECTOR
Contact Name: ROBERT DONOVAN
Address1: 1 WEST FARMS SQ PLAZA
Address2: Not reported
City: BRONX
State: NY
Zip Code: 10460
Country Code: 001
Phone: (718) 589-4546
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

Site Id: 9480
Affiliation Type: Mail Contact
Company Name: WEST FARMS NEIGHBORHOOD
Contact Type: Not reported
Contact Name: HENG LY
Address1: HOUSING DEV. FUND CO., INC
Address2: 2751 GRAND CONCOURSE
City: BRONX
State: NY
Zip Code: 10468
Country Code: 001
Phone: (718) 367-3200
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001834390 **DIST/DIR:** 0.106 SW **ELEVATION:** 39 **MAP ID:** G32

NAME: FBHC **Rev:** 12/28/2016

ADDRESS: 1 WEST FARMS ROAD
BRONX, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Site Id: 9480
Affiliation Type: On-Site Operator
Company Name: FBHC
Contact Type: Not reported
Contact Name: WEST FARMS HOUSING DEV INC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 589-4546
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

Site Id: 9480
Affiliation Type: Emergency Contact
Company Name: WEST FARMS NEIGHBORHOOD HOUSING DEV. FUND CO., INC
Contact Type: Not reported
Contact Name: LABORN BAIZE
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (347) 614-0153
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 2012-10-02

Tank Info:

Tank Number: 002
Tank ID: 11567
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 25000
Install Date: 06/01/1972
Date Tank Closed: 11/30/2012
Registered: True

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001834390 **DIST/DIR:** 0.106 SW **ELEVATION:** 39 **MAP ID:** G32

NAME: FBHC **Rev:** 12/28/2016

ADDRESS: 1 WEST FARMS ROAD
BRONX, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0003
Common Name of Substance: #6 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 01/02/2013

Equipment Records:
L09 - Piping Leak Detection - Exempt Suction Piping
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
A01 - Tank Internal Protection - Epoxy Liner
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 100
Tank ID: 11566
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 25000
Install Date: 06/01/1972
Date Tank Closed: 11/30/2012
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0003
Common Name of Substance: #6 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U001834390 **DIST/DIR:** 0.106 SW **ELEVATION:** 39 **MAP ID:** G32

NAME: FBHC **Rev:** 12/28/2016

ADDRESS: 1 WEST FARMS ROAD
BRONX, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Last Modified: 01/02/2013

Equipment Records:
A01 - Tank Internal Protection - Epoxy Liner
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
L09 - Piping Leak Detection - Exempt Suction Piping
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S110139489 **DIST/DIR:** 0.107 ENE **ELEVATION:** 30 **MAP ID:** 33

NAME: PRIVATE RESIDENCE
ADDRESS: 1277 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0910947 / Not Reported
ID/Status: 0910947
ID/Status: 423722

SPILLS:
Facility ID: 0910947
Facility Type: ER
DER Facility ID: 372630
Site ID: 423722
DEC Region: 2
Spill Date: 2010-01-10
Spill Number/Closed Date: 0910947 / Not Reported
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: RMPIPER
Referred To: Not reported
Reported to Dept: 2010-01-11
CID: Not reported
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 1
Date Entered In Computer: 2010-01-11
Spill Record Last Update: 2011-09-23
Spiller Name: MARAYLN SILVA
Spiller Company: MARAYLN SILVA
Spiller Address: 1277 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 999
Contact Name: MARAYLN SILVA
Contact Phone: (718) 617-0774
DEC Memo: " Delivery lasto ccured on 12-31-09. Tank is a vaulted 550. Oil co
got service call last night at 11pm. Tank was empty on inspection.
Subsurface return line assumed to be leaking. No odors in basement.
Above ground line installed. Oil was put in tank. This am. oil was in
tank. I spoke with Ms. Silva and instructed her to contact ins. co.
as a substantial release may have occured. CSL letter sent and faxed.
9/23/11- 2nd csl letter sent."
Remarks: "Caller reporting a leak of an unknown amount of #2 fuel oil to soil.
Caller reporting a leak in basement, which he belives went to soil.
Clean up pending."

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S110139489 **DIST/DIR:** 0.107 ENE **ELEVATION:** 30 **MAP ID:** 33

NAME: PRIVATE RESIDENCE
ADDRESS: 1277 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0910947 / Not Reported
ID/Status: 0910947
ID/Status: 423722

Material:
Site ID: 423722
Operable Unit ID: 1179529
Operable Unit: 01
Material ID: 2173254
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

SPILLS:
Facility ID: 0810395
Facility Type: ER
DER Facility ID: 70117
Site ID: 407914
DEC Region: 2
Spill Date: 2008-12-15
Spill Number/Closed Date: 0810395 / 2009-01-29
Spill Cause: Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2008-12-15
CID: Not reported
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2008-12-15
Spill Record Last Update: 2009-01-29
Spiller Name: DERRICK ATKINSON
Spiller Company: GETTY
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 999
Contact Name: DERRICK ATKINSON
Contact Phone: Not reported
DEC Memo: "This monitoring well problem is associated with an ongoing remediation #9700109 This spill number is closed - Ref #9700109"
Remarks: "Smell of gasoline detected in monitoring well #15 during routine sampling"

Material:
Site ID: 407914
Operable Unit ID: 1164448
Operable Unit: 01
Material ID: 2155823
Material Code: 0009

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0803178
Facility Type: ER
DER Facility ID: 70117
Site ID: 399872
DEC Region: 2
Spill Date: 2008-06-17
Spill Number/Closed Date: 0803178 / 2008-06-17
Spill Cause: Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2008-06-17
CID: 444
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2008-06-17
Spill Record Last Update: 2008-06-17
Spiller Name: MIKE CARR‘
Spiller Company: GETTY#329
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR‘

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

Contact Phone: (518) 369-7822
DEC Memo: "minor spill - all cleaned"
Remarks: "CUSTOMER OVERFILL AND CLEANED : LESS THEN 1 GALLON"

Material:
Site ID: 399872
Operable Unit ID: 1156728
Operable Unit: 01
Material ID: 2147678
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0801685
Facility Type: ER
DER Facility ID: 70117
Site ID: 397669
DEC Region: 2
Spill Date: 2008-05-13
Spill Number/Closed Date: 0801685 / 2008-05-15
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2008-05-13
CID: 404
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

Remediation Phase: 0
Date Entered In Computer: 2008-05-13
Spill Record Last Update: 2008-05-15
Spiller Name: MIKE CARR‘
Spiller Company: GETTY 329
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR‘
Contact Phone: (518) 369-7822
DEC Memo: "minor spills - housekeeping issues"
Remarks: "1pint of antifreeze; 1/4 of a pint of waste oil; and less than 1 gallon of gasoline; all cleaned up"

Material:
Site ID: 397669
Operable Unit ID: 1154611
Operable Unit: 01
Material ID: 2145419
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported
Site ID: 397669
Operable Unit ID: 1154611
Operable Unit: 01
Material ID: 2145421
Material Code: 0043A
Material Name: antifreeze
Case No.: Not reported
Material FA: Other
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported
Site ID: 397669
Operable Unit ID: 1154611
Operable Unit: 01
Material ID: 2145420

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0800752
Facility Type: ER
DER Facility ID: 70117
Site ID: 396560
DEC Region: 2
Spill Date: 2008-04-18
Spill Number/Closed Date: 0800752 / 2008-04-18
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2008-04-18
CID: 408
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2008-04-18
Spill Record Last Update: 2008-04-18
Spiller Name: SCOTT HANLEY
Spiller Company: GETTY #329
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

Contact Name: MIKE CARR‘
Contact Phone: (518) 369-7822
DEC Memo: "minor spill - all cleaned"
Remarks: "HAS BEEN CLEANED;"

Material:
Site ID: 396560
Operable Unit ID: 1153531
Operable Unit: 01
Material ID: 2144299
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0713251
Facility Type: ER
DER Facility ID: 70117
Site ID: 394977
DEC Region: 2
Spill Date: 2008-03-14
Spill Number/Closed Date: 0713251 / 2008-03-17
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2008-03-14
CID: 404
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2008-03-14
Spill Record Last Update: 2008-03-17
Spiller Name: MIKE CARR\\
Spiller Company: GETTY 329
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR\\
Contact Phone: (518) 369-7822 CELL
DEC Memo: "minor spill - all cleaned"
Remarks: "less than 1 gallon spilled; all cleaned up"

Material:
Site ID: 394977
Operable Unit ID: 1151924
Operable Unit: 01
Material ID: 2142691
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0712861
Facility Type: ER
DER Facility ID: 70117
Site ID: 394539
DEC Region: 2
Spill Date: 2008-03-07
Spill Number/Closed Date: 0712861 / 2008-03-07
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

Reported to Dept: 2008-03-07
CID: 408
Water Affected: Not reported
Spill Source: Passenger Vehicle
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2008-03-07
Spill Record Last Update: 2008-03-07
Spiller Name: Not reported
Spiller Company: CUSTOMER CAR
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: MIKE CARR\\
Contact Phone: (518) 369-7822 CELL
DEC Memo: "minor spill - all cleaned"
Remarks: "vehicle gas tank leaked and has been cleaned;"

Material:
Site ID: 394539
Operable Unit ID: 1151491
Operable Unit: 01
Material ID: 2142219
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 6.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0711051
Facility Type: ER
DER Facility ID: 70117
Site ID: 392464

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

DEC Region: 2
Spill Date: 2008-01-18
Spill Number/Closed Date: 0711051 / 2008-01-28
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2008-01-18
CID: 444
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2008-01-18
Spill Record Last Update: 2008-01-28
Spiller Name: MIKE CARR\\
Spiller Company: GETTY#329
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR\\
Contact Phone: (518) 369-7822 CELL
DEC Memo: "01/18/08-Vought-Duty desk officer. Spill assigned to DEC Sangesland
as minor spill and Sangesland managing Getty portfolio as per DEC
Austin. Tyree report states: waste oil on asphalt, speedy dry applied
- all cleaned up "
Remarks: "ALL CLEANED UP"

Material:
Site ID: 392464
Operable Unit ID: 1149469
Operable Unit: 01
Material ID: 2139995
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

Units: Gallons
Recovered: 1.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0706009
Facility Type: ER
DER Facility ID: 70117
Site ID: 386449
DEC Region: 2
Spill Date: 2007-08-27
Spill Number/Closed Date: 0706009 / 2007-08-27
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2007-08-27
CID: 444
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2007-08-27
Spill Record Last Update: 2007-08-27
Spiller Name: MIKE CARR\\
Spiller Company: GETTY#329
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR\\
Contact Phone: (518) 369-7822 CELL
DEC Memo: "minor spill - all cleaned"
Remarks: "IS CLEANED UP"

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

Material:
Site ID: 386449
Operable Unit ID: 1143687
Operable Unit: 01
Material ID: 2133957
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: 1.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0704745
Facility Type: ER
DER Facility ID: 70117
Site ID: 384958
DEC Region: 2
Spill Date: 2007-07-27
Spill Number/Closed Date: 0704745 / 2007-07-27
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2007-07-27
CID: 444
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2007-07-27
Spill Record Last Update: 2007-07-27

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

Spiller Name: MIKE CARR\\
Spiller Company: GETTY#329
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR\\
Contact Phone: (518) 369-7822
DEC Memo: ""
Remarks: "all cleaned up: staining:"

Material:
Site ID: 384958
Operable Unit ID: 1142241
Operable Unit: 01
Material ID: 2132466
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0702499
Facility Type: ER
DER Facility ID: 70117
Site ID: 382240
DEC Region: 2
Spill Date: 2007-05-30
Spill Number/Closed Date: 0702499 / 2007-06-26
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2007-05-30
CID: 408
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810395 / 2009-01-29
ID/Status: 0803178 / 2008-06-17
ID/Status: 0801685 / 2008-05-15
ID/Status: 0800752 / 2008-04-18
ID/Status: 0713251 / 2008-03-17

Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2007-05-30
Spill Record Last Update: 2007-06-26
Spiller Name: SCOT HANLEY
Spiller Company: GETTY #329
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR
Contact Phone: (518) 369-7822
DEC Memo: "surface spill on asphalt - all cleaned"
Remarks: "HAS BEEN CLEANED;"

Material:
Site ID: 382240
Operable Unit ID: 1139643
Operable Unit: 01
Material ID: 2129685
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329

ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9504305 / 2006-01-05
ID/Status: 74807
ID/Status: 9504305

LTANKS:
Site ID: 74807
Spill Number/Closed Date: 9504305 / 2006-01-05
Spill Date: 1995-07-10
Spill Cause: Tank Failure
Spill Source: Gasoline Station or other PBS Facility
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: rjfeng
Referred To: REFER TO #97-00109
Reported to Dept: 1995-07-10
CID: Not reported
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1995-08-07
Spill Record Last Update: 2006-01-05
Spiller Name: Not reported
Spiller Company: GETTY STATION
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller County: 999
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 70117
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT SEE ALSO 97-04954 & 97-12845 & 97-00109. 04/11/03 Transfered from Tibbe to Vought 08/31/2005 - Feng - Project transferred from Vought to Feng. 10/20/2005 - Feng - Refer to Spill#: 97-00109 1/5/2006 - Feng - Spill closed and refer to 97-00109 @ same location. (RJF)"
Remarks: "COMPANY IS REMOVING UNDERGROUND TANKS AND HAVE FOUND CONTAMINATED SOIL NOTE/ CALLER WAS GIVEN A WRONG # OF 95-04280"

Material:
Site ID: 74807

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S107787668 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H34

NAME: GETTY #329
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9504305 / 2006-01-05
ID/Status: 74807
ID/Status: 9504305

Operable Unit ID: 1015353
Operable Unit: 01
Material ID: 365814
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100168816 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H35

NAME: GLOBAL MONTELLO GROUP CORP. #5421
ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-152897

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-152897
Program Type: PBS
UTM X: 594222.32902
UTM Y: 4520329.74943
Expiration Date: 07/24/2020
Site Type: Retail Gasoline Sales

Affiliation Records:
Site Id: 4810
Affiliation Type: On-Site Operator
Company Name: GLOBAL MONTELLO GROUP CORP. #5421
Contact Type: Not reported
Contact Name: DAVIS SERVICE INC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 378-9174
EMail: Not reported
Fax Number: Not reported
Modified By: NTFREEMA
Date Last Modified: 2015-07-07

Site Id: 4810
Affiliation Type: Facility Owner
Company Name: LEEMILTS PETROLEUM.
Contact Type: COMPLIANCE ANALYST
Contact Name: SARAH BEAUMONT
Address1: 2 JERICHO TURNPIKE, WING C, SUITE 110
Address2: Not reported
City: JERICHO
State: NY
Zip Code: 11753
Country Code: 001
Phone: (516) 478-0540
EMail: Not reported
Fax Number: Not reported
Modified By: NTFREEMA
Date Last Modified: 2015-07-07

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100168816 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H35

NAME: GLOBAL MONTELLO GROUP CORP. #5421
ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-152897

Site Id: 4810
Affiliation Type: Emergency Contact
Company Name: LEEMILTS PETROLEUM.
Contact Type: Not reported
Contact Name: CALL CENTER
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (888) 674-7601
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 2013-05-10

Site Id: 4810
Affiliation Type: Mail Contact
Company Name: GLOBAL MONTELLO GROUP CORP
Contact Type: Not reported
Contact Name: DAVID WENT
Address1: P.O. BOX 549290
Address2: 800 SOUTH STREET, SUITE 500
City: WALTHAM
State: MA
Zip Code: 02454
Country Code: 001
Phone: (781) 402-8893
EMail: DWENT@GLOBALP.COM
Fax Number: Not reported
Modified By: MXLAY
Date Last Modified: 2016-05-11

Tank Info:

Tank Number: 004
Tank Id: 19491
Material Code: 0009
Common Name of Substance: Gasoline

Equipment Records:
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100168816 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H35

NAME: GLOBAL MONTELLO GROUP CORP. #5421
ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-152897

F00 - Pipe External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 01/01/1953
Capacity Gallons: 550
Tightness Test Method: 01
Date Test: 10/01/1993
Next Test Date: Not reported
Date Tank Closed: 06/01/1995
Register: True
Modified By: TRANSLAT
Last Modified: 03/04/2004
Material Name: Not reported

Tank Number: 014
Tank Id: 50992
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
C00 - Pipe Location - No Piping
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G10 - Tank Secondary Containment - Impervious Underlayment
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
K01 - Spill Prevention - Catch Basin
B05 - Tank External Protection - Jacketed
J00 - Dispenser - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100168816 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H35

NAME: GLOBAL MONTELLO GROUP CORP. #5421
ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-152897

F00 - Pipe External Protection - None
Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 12/01/1993
Capacity Gallons: 180
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NTFREEMA
Last Modified: 07/07/2015
Material Name: Not reported

Tank Number: 3
Tank Id: 63975
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
D10 - Pipe Type - Copper
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
B01 - Tank External Protection - Painted/Asphalt Coating
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None
I02 - Overfill - High Level Alarm
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K01 - Spill Prevention - Catch Basin
B05 - Tank External Protection - Jacketed
C01 - Pipe Location - Aboveground
F00 - Pipe External Protection - None
Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 10/01/1998

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: A100168816 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H35

NAME: GLOBAL MONTELLO GROUP CORP. #5421

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-152897

Capacity Gallons: 240
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NTFREEMA
Last Modified: 07/07/2015
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

UST:
Id/Status: 2-152897 / Active
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 07/24/2020
UTM X: 594222.32902
UTM Y: 4520329.74943
Site Type: Retail Gasoline Sales

Affiliation Records:
Site Id: 4810
Affiliation Type: On-Site Operator
Company Name: GLOBAL MONTELLO GROUP CORP. #5421
Contact Type: Not reported
Contact Name: DAVIS SERVICE INC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 378-9174
EMail: Not reported
Fax Number: Not reported
Modified By: NTFREEMA
Date Last Modified: 2015-07-07

Site Id: 4810
Affiliation Type: Facility Owner
Company Name: LEEMILTS PETROLEUM.
Contact Type: COMPLIANCE ANALYST
Contact Name: SARAH BEAUMONT
Address1: 2 JERICHO TURNPIKE, WING C, SUITE 110
Address2: Not reported
City: JERICHO
State: NY
Zip Code: 11753
Country Code: 001
Phone: (516) 478-0540
EMail: Not reported
Fax Number: Not reported
Modified By: NTFREEMA
Date Last Modified: 2015-07-07

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Site Id: 4810
Affiliation Type: Emergency Contact
Company Name: LEEMILTS PETROLEUM.
Contact Type: Not reported
Contact Name: CALL CENTER
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (888) 674-7601
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 2013-05-10

Site Id: 4810
Affiliation Type: Mail Contact
Company Name: GLOBAL MONTELLO GROUP CORP
Contact Type: Not reported
Contact Name: DAVID WENT
Address1: P.O. BOX 549290
Address2: 800 SOUTH STREET, SUITE 500
City: WALTHAM
State: MA
Zip Code: 02454
Country Code: 001
Phone: (781) 402-8893
EMail: DWENT@GLOBALP.COM
Fax Number: Not reported
Modified By: MXLAY
Date Last Modified: 2016-05-11

Tank Info:

Tank Number: 001
Tank ID: 19488
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 08/01/1995
Date Tank Closed: Not reported
Registered: True

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 2712
Common Name of Substance: Gasoline/Ethanol

Tightness Test Method: 21
Date Test: 12/05/2002
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NTFREEMA
Last Modified: 07/07/2015

Equipment Records:
B04 - Tank External Protection - Fiberglass
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
E04 - Piping Secondary Containment - Double walled UG
F05 - Pipe External Protection - Jacketed
G04 - Tank Secondary Containment - Double-Walled (Underground)
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
I01 - Overfill - Float Vent Valve
I02 - Overfill - High Level Alarm
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
J01 - Dispenser - Pressurized Dispenser

Tank Number: 002
Tank ID: 19489
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 10/01/1993
Next Test Date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 003
Tank ID: 19490
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 10/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Tank Number: 005
Tank ID: 19492
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 10/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 006
Tank ID: 19493
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Tightness Test Method: 01
Date Test: 10/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 007
Tank ID: 19494
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 10/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
D02 - Pipe Type - Galvanized Steel

Tank Number: 008
Tank ID: 19495
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 10/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 009
Tank ID: 19496
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 10/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 010
Tank ID: 19497
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 10/01/1993
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
B00 - Tank External Protection - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel

Tank Number: 011
Tank ID: 19498
Tank Status: Closed - In Place
Material Name: Closed - In Place
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: ZZ
Date Test: 04/01/1989
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
D02 - Pipe Type - Galvanized Steel
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 012
Tank ID: 19499
Tank Status: Closed - Removed

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: ZZ
Date Test: 04/01/1989
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
J02 - Dispenser - Suction Dispenser
G00 - Tank Secondary Containment - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 013
Tank ID: 19500
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 01/01/1953
Date Tank Closed: 06/01/1995
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 9999
Common Name of Substance: Other

Tightness Test Method: ZZ
Date Test: 04/01/1989
Next Test Date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 2001
Tank ID: 49770
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 08/01/1995
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 2712
Common Name of Substance: Gasoline/Ethanol

Tightness Test Method: 21
Date Test: 12/05/2002
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NTFREEMA
Last Modified: 07/07/2015

Equipment Records:
J01 - Dispenser - Pressurized Dispenser
E04 - Piping Secondary Containment - Double walled UG
F05 - Pipe External Protection - Jacketed
G04 - Tank Secondary Containment - Double-Walled (Underground)
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004062934 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H36

NAME: GLOBAL MONTELLO GROUP CORP. #5421 **Rev:** 12/28/2016

ADDRESS: 1441 WESTCHESTER AVENUE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

I01 - Overfill - Float Vent Valve
I02 - Overfill - High Level Alarm
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
B04 - Tank External Protection - Fiberglass
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring

Tank Number: 2002
Tank ID: 49771
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 08/01/1995
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 2712
Common Name of Substance: Gasoline/Ethanol

Tightness Test Method: 21
Date Test: 12/05/2002
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NTFREEMA
Last Modified: 07/07/2015

Equipment Records:
I01 - Overfill - Float Vent Valve
I02 - Overfill - High Level Alarm
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
A00 - Tank Internal Protection - None
E04 - Piping Secondary Containment - Double walled UG
F05 - Pipe External Protection - Jacketed
G04 - Tank Secondary Containment - Double-Walled (Underground)
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
B04 - Tank External Protection - Fiberglass
J01 - Dispenser - Pressurized Dispenser

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S113405160 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H37

NAME: GETTY GAS STATION
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1215811 / 2013-03-29
ID/Status: 1215811
ID/Status: 479143

SPILLS:
Facility ID: 1215811
Facility Type: ER
DER Facility ID: 70117
Site ID: 479143
DEC Region: 2
Spill Date: 2013-02-23
Spill Number/Closed Date: 1215811 / 2013-03-29
Spill Cause: Human Error
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: SMSANGES
Referred To: Not reported
Reported to Dept: 2013-02-23
CID: Not reported
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2013-02-23
Spill Record Last Update: 2013-03-29
Spiller Name: SANACORE
Spiller Company: UNKNOWN
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 999
Contact Name: SANACORE
Contact Phone: (347) 203-6886
DEC Memo: "surface spill at a gas station from someone filling a car. FD on site, fuel went down the sewer and was flushed by FD."
Remarks: "over fill of vehicle - 20 gal. down a sewer - fdny hazmat on scene - clean up in progress"

Material:
Site ID: 479143
Operable Unit ID: 1228885
Operable Unit: 01
Material ID: 2226626
Material Code: 0009

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S113405160 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H37

NAME: GETTY GAS STATION
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1215811 / 2013-03-29
ID/Status: 1215811
ID/Status: 479143

Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 20.00
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S116553269 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H38

NAME: BELOW DISPENSORS
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1311378 / 2014-03-31
ID/Status: 1311378
ID/Status: 492273

SPILLS:
Facility ID: 1311378
Facility Type: ER
DER Facility ID: 70117
Site ID: 492273
DEC Region: 2
Spill Date: 2014-03-05
Spill Number/Closed Date: 1311378 / 2014-03-31
Spill Cause: Equipment Failure
Spill Class: Not reported
SWIS: 0301
Investigator: RJFENG
Referred To: Not reported
Reported to Dept: 2014-03-05
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2014-03-05
Spill Record Last Update: 2014-03-31
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: TIM FISHER
Contact Phone: (949) 375-1174
DEC Memo: "3/5/2014 - Feng - Spoke with Tim Fisher of Antea Group (timothy.fisher.@anteagroup.com, 949-375-1174). Antea Group has been retained by Getty Realty. Alliance Energy is the tenant and has been operated the site for a year. The contractor for Alliance Energy found impacts in the pea gravel beneath the dispensers. Antea Group has screened the pea gravel with PID and found one dispenser with 323 ppm and another dispenser with 273 ppm. Alliance's contractor has removed the pea gravel and cleaned the sump. The gravel will be stored into a 50-gallon drum and will be disposed. They have disconnected the dispensers and tested with water and found no leak in tht dispensers pan so it should not released to the subsurface.

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S116553269 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H38

NAME: BELOW DISPENSORS

ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1311378 / 2014-03-31
ID/Status: 1311378
ID/Status: 492273

There is no indication of problem of the dispensers. The station is in the process of putting new dispensers and should be completing the work today or tomorrow, but there is no plan to collect soil sample beneath the dispensers upon they remove the whole dispensers out. Contact for Alliance's environmental management, David Went 339-368-0668. Spoke with David Went (339-369-0668, dwent@AllianceEnergy.com). Advised him on the removing of impacted soil, if there is any, and collecting soil sample while removing the dispensers. But he said that they are not removing the dispensers pans, the pans have been tested tighted so no need to remove that. Therefore, no soil will be exposed and removed. 3/31/2014 - received and reviewed a letter report from Tyree dated 3/31/2014 documenting the incidents associated with the dispensers and the removal of the stained and odored pea gravels. Spill is closed."

Remarks: "clean up underway."

Material:
Site ID: 492273
Operable Unit ID: 1241808
Operable Unit: 01
Material ID: 2242295
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S113405207 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H39

NAME: ALLIANCE ENERGY LLC
ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1215865 / 2013-03-04
ID/Status: 1215865
ID/Status: 479197

SPILLS:
Facility ID: 1215865
Facility Type: ER
DER Facility ID: 70117
Site ID: 479197
DEC Region: 2
Spill Date: 2013-02-23
Spill Number/Closed Date: 1215865 / 2013-03-04
Spill Cause: Human Error
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: SFRAHMAN
Referred To: Not reported
Reported to Dept: 2013-02-26
CID: Not reported
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2013-02-26
Spill Record Last Update: 2013-03-04
Spiller Name: RICHARD BALDWIN
Spiller Company: ALLIANCE ENERGY LLC
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 999
Contact Name: RICHARD BALDWIN
Contact Phone: (631) 567-1777 106
DEC Memo: "Spoke with Richard Baldwin.Spill has been cleaned up by FD.No soil /drain was impacted. A report will be send to DEC. (sr) 03/04/13 Closure report in edocs.(sr)"
Remarks: "individual drove away w/out removing pump hose, nyc fd c/u"

Material:
Site ID: 479197
Operable Unit ID: 1228940
Operable Unit: 01
Material ID: 2226693
Material Code: 0009

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S113405207 **DIST/DIR:** 0.108 SE **ELEVATION:** 20 **MAP ID:** H39

NAME: ALLIANCE ENERGY LLC

ADDRESS: 1441 WESTCHESTER AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1215865 / 2013-03-04
ID/Status: 1215865
ID/Status: 479197

Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 2.00
Units: Gallons
Recovered: 2.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102238491 **DIST/DIR:** 0.109 SE **ELEVATION:** 20 **MAP ID:** H40

NAME: BRONX RIVER AV/WESTCHESTE

ADDRESS: BX RIVER AV/WESTCHESTER
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9511693 / 1995-12-15
ID/Status: 9511693
ID/Status: 295537

SPILLS:
Facility ID: 9511693
Facility Type: ER
DER Facility ID: 239166
Site ID: 295537
DEC Region: 2
Spill Date: 1995-12-13
Spill Number/Closed Date: 9511693 / 1995-12-15
Spill Cause: Abandoned Drums
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: KSTANG
Referred To: Not reported
Reported to Dept: 1995-12-15
CID: 323
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Police Department
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1995-12-15
Spill Record Last Update: 1996-01-18
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: LT MCMAHON
Contact Phone: (212) 837-8450
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was
TANG CALLED LT. MCMAHON, HE SAID THAT NYCDEP WAS ALSO ON SCENE & HAD
DISPOSED OF THE DRUMS."
Remarks: "DRUM WAS LEFT ON THE STREET CORNER, SPILL WAS SANDED TO CLEAN IT UP.
FDNY AND SANITATION WAS ON THE SCENE."

Material:
Site ID: 295537
Operable Unit ID: 1022369
Operable Unit: 01
Material ID: 359021

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102238491 **DIST/DIR:** 0.109 SE **ELEVATION:** 20 **MAP ID:** H40

NAME: BRONX RIVER AV/WESTCHESTE

ADDRESS: BX RIVER AV/WESTCHESTER
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9511693 / 1995-12-15
ID/Status: 9511693
ID/Status: 295537

Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 35.00
Units: Gallons
Recovered: 35.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1014395231 **DIST/DIR:** 0.109 SE **ELEVATION:** 20 **MAP ID:** H41

NAME: VERIZON
ADDRESS: W CHESTER & BRONX RIVER AVE
BRONX, NY 10463
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYP000964940

RCRA NonGen / NLR:
Date form received by agency: 06/18/2009
Facility name: VERIZON
Facility address: W CHESTER & BRONX RIVER AVE
E OF
BRONX, NY 10463
EPA ID: NYP000964940
Mailing address: HANSE AVE
FREEPORT, NY 11520
Contact: BILL IRWIN
Contact address: HANSE AVE
FREEPORT, NY 11520
Contact country: US
Contact telephone: (917) 837-3985
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1015746620 **DIST/DIR:** 0.109 SE **ELEVATION:** 20 **MAP ID:** H42

NAME: CON EDISON MANHOLE 23574
ADDRESS: BRONX RIVER AVE & CLOSE AVE
BRONX, NY 10472
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYP004246114

RCRA NonGen / NLR:
Date form received by agency: 02/02/2012
Facility name: CON EDISON MANHOLE 23574
Facility address: BRONX RIVER AVE & CLOSE AVE
BRONX, NY 10472
EPA ID: NYP004246114
Mailing address: 4 IRVING PL, RM 828
NEW YORK, NY 10003
Contact: GINO FRABASILE
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (914) 925-6219
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/03/2012
Site name: CON EDISON MANHOLE 23574
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102145604 **DIST/DIR:** 0.109 SE **ELEVATION:** 20 **MAP ID:** H43

NAME: WESTCHESTER @ CLOSE AV/BX

ADDRESS: WESTCHESTER AV @ CLOSE AV
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8909355 / 1989-12-29
ID/Status: 8909355
ID/Status: 163893

SPILLS:
Facility ID: 8909355
Facility Type: ER
DER Facility ID: 138223
Site ID: 163893
DEC Region: 2
Spill Date: 1989-12-27
Spill Number/Closed Date: 8909355 / 1989-12-29
Spill Cause: Traffic Accident
Spill Class: Not reported
SWIS: 0301
Investigator: SULLIVAN
Referred To: Not reported
Reported to Dept: 1989-12-27
CID: Not reported
Water Affected: Not reported
Spill Source: Tank Truck
Spill Notifier: Fire Department
Cleanup Ceased: 1989-12-29
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1990-01-03
Spill Record Last Update: 2002-06-17
Spiller Name: Not reported
Spiller Company: M B FUEL OIL CO
Spiller Address: 1281 VIELE AV
Spiller City,St,Zip: BRONX, NY 10499
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: ""
Remarks: "CLEAN UP CONTRACTOR WAS A L EASTMOND, MOST OF THE OIL WAS PUMPED INTO VAC TRUCK, SPEEDY DRY WAS APPLIED & CLEANED UP, CLEANED UP BY SPILLER ON 12/27/89."

Material:
Site ID: 163893
Operable Unit ID: 936528
Operable Unit: 01
Material ID: 442518
Material Code: 0001A
Material Name: #2 fuel oil

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102145604 **DIST/DIR:** 0.109 SE **ELEVATION:** 20 **MAP ID:** H43

NAME: WESTCHESTER @ CLOSE AV/BX

ADDRESS: WESTCHESTER AV @ CLOSE AV
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8909355 / 1989-12-29
ID/Status: 8909355
ID/Status: 163893

Case No.: Not reported
Material FA: Petroleum
Quantity: 1000.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S103829543 **DIST/DIR:** 0.109 East **ELEVATION:** 26 **MAP ID:** 44

NAME: THOMAS RES
ADDRESS: 1252 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9815456 / 2004-06-16
ID/Status: 9815456
ID/Status: 225191

SPILLS:
Facility ID: 9815456
Facility Type: ER
DER Facility ID: 185888
Site ID: 225191
DEC Region: 2
Spill Date: 1999-03-29
Spill Number/Closed Date: 9815456 / 2004-06-16
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: JMKRIMGO
Referred To: Not reported
Reported to Dept: 1999-03-29
CID: 371
Water Affected: Not reported
Spill Source: Tank Truck
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1999-03-29
Spill Record Last Update: 2004-06-21
Spiller Name: ROSE GUIDO
Spiller Company: PETRO OIL
Spiller Address: 5560 58TH ST
Spiller City,St,Zip: MASPETH, NY -
Spiller Company: 001
Contact Name: MRS THOMAS
Contact Phone: (718) 893-8939
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was
KRIMGOLD NO SEWERS OR DRAINS, CREW ON ITS WAY FOR CLEAN-UP. SPILL IS
ONTO DIRT. 01/26/04 Reassinged from Rommel to Austin 02/17/04:
Reassigned from AUSTIN to KRIMGOLD. 6/16/04. Unable to contact owner.
Minimal spill. NFA. "
Remarks: "fitting loosened after making delivery - clean up crew will respond "
Not reported

Material:
Site ID: 225191
Operable Unit ID: 1076478

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S103829543 **DIST/DIR:** 0.109 East **ELEVATION:** 26 **MAP ID:** 44

NAME: THOMAS RES

ADDRESS: 1252 BRONX RIVER AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9815456 / 2004-06-16
ID/Status: 9815456
ID/Status: 225191

Operable Unit: 01
Material ID: 308561
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: 1.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1014395540 **DIST/DIR:** 0.110 NNW **ELEVATION:** 30 **MAP ID:** 45

NAME: NYC DEP
ADDRESS: 1508 BOONE AVE
BRONX, NY 10460
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYP003664406

RCRA NonGen / NLR:
Date form received by agency: 06/19/2009
Facility name: NYC DEP
Facility address: 1508 BOONE AVE
BRONX, NY 10460
EPA ID: NYP003664406
Mailing address: JUNCTION BLVD
FLUSHING, NY 11373
Contact: JOANNE NURSE
Contact address: JUNCTION BLVD
FLUSHING, NY 11373
Contact country: US
Contact telephone: (718) 595-4675
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1014395540 **DIST/DIR:** 0.110 NNW **ELEVATION:** 30 **MAP ID:** 45

NAME: NYC DEP

ADDRESS: 1508 BOONE AVE
BRONX, NY 10460
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYP003664406

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: Not reported

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1000872182 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J46

NAME: GETTY SERVICE STATION
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY 10472
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYD987002003

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: GETTY PETROLEUM CORP
Facility address: 1185 BRONX RIVER AVE
BRONX, NY 104723101
EPA ID: NYD987002003
Mailing address: JERICHO TNPK
JERICHO, NY 11735
Contact: Not reported
Contact address: JERICHO TNPK
JERICHO, NY 11735
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: GETTY PETROLEUM CORP
Owner/operator address: 125 JERICHO TNPK
JERICHO, NY 11735
Owner/operator country: US
Owner/operator telephone: (516) 338-6000
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GETTY PETROLEUM CORP
Owner/operator address: 125 JERICHO TNPK
JERICHO, NY 11735
Owner/operator country: US
Owner/operator telephone: (516) 338-6000
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1000872182 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J46

NAME: GETTY SERVICE STATION
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY 10472
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYD987002003

Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: GETTY PETROLEUM CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: GETTY PETROLEUM CORP
Classification: Not a generator, verified

Date form received by agency: 01/31/1994
Site name: GETTY PETROLEUM CORP
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1000872182 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J46

NAME: GETTY SERVICE STATION

ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY 10472
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYD987002003

SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S109583012 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J47

NAME: GETTY # 268
ADDRESS: 1185 BRONXRIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0902005 / 2009-05-26
ID/Status: 0902005
ID/Status: 414034

SPILLS:
Facility ID: 0902005
Facility Type: ER
DER Facility ID: 363135
Site ID: 414034
DEC Region: 2
Spill Date: 2009-05-19
Spill Number/Closed Date: 0902005 / 2009-05-26
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2009-05-19
CID: Not reported
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2009-05-19
Spill Record Last Update: 2009-05-26
Spiller Name: CARRIE WILSEY
Spiller Company: GETTY # 268
Spiller Address: 1185 BRONXRIVER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 999
Contact Name: CARRIE WILSEY
Contact Phone: (518) 369-7822
DEC Memo: "minor spill - confined within the building."
Remarks: "DUE TO POOR HOUSEKEEPING HALF A GALLON OF ANTIFREEZE AND WASTE OIL WAS FOUND ON THE CONCRETE BAY FLOOR. CLEAN UP WAS DONE."

Material:
Site ID: 414034
Operable Unit ID: 1170427
Operable Unit: 01
Material ID: 2162157
Material Code: 0043A
Material Name: antifreeze

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S109583012 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J47

NAME: GETTY # 268

ADDRESS: 1185 BRONXRIVER AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0902005 / 2009-05-26
ID/Status: 0902005
ID/Status: 414034

Case No.: Not reported
Material FA: Other
Quantity: .50
Units: Gallons
Recovered: .50
Resource Affected: Not reported
Oxygenate: Not reported
Site ID: 414034
Operable Unit ID: 1170427
Operable Unit: 01
Material ID: 2162158
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

SPILLS:
Facility ID: 0810541
Facility Type: ER
DER Facility ID: 201809
Site ID: 408067
DEC Region: 2
Spill Date: 2008-12-18
Spill Number/Closed Date: 0810541 / 2009-02-13
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2008-12-18
CID: Not reported
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2008-12-18
Spill Record Last Update: 2009-02-13
Spiller Name: CARRIE WILSEY
Spiller Company: GETTY 268
Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 999
Contact Name: CARRIE WILSEY
Contact Phone: (518) 369-7822
DEC Memo: "Tyree report says: Gasoline was found in regular fill and waste oil was found in overfill bucket of AST. Operator cleaned both."
Remarks: "CALLER STATES THAT DUE TO POOR HOUSE KEEPING LESS THAN A GALLON WAS SPILLED TO A FILL BUCKET, CLEAN UP WAS DONE."

Material:
Site ID: 408067
Operable Unit ID: 1164594
Operable Unit: 01
Material ID: 2155976
Material Code: 0022

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .99
Units: Gallons
Recovered: .99
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0809157
Facility Type: ER
DER Facility ID: 201809
Site ID: 406599
DEC Region: 2
Spill Date: 2008-11-13
Spill Number/Closed Date: 0809157 / 2008-11-18
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2008-11-13
CID: Not reported
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2008-11-13
Spill Record Last Update: 2008-11-18
Spiller Name: MIKE CARR
Spiller Company: GETTY
Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 999
Contact Name: MIKE CARR

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

Contact Phone: (518) 369-7822
DEC Memo: "minor spill closed"
Remarks: "Caller states a small amount of less than 1 gallon was in a spill box. Clean up was done."

Material:
Site ID: 406599
Operable Unit ID: 1163180
Operable Unit: 01
Material ID: 2154489
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0713291
Facility Type: ER
DER Facility ID: 201809
Site ID: 395017
DEC Region: 2
Spill Date: 2008-03-17
Spill Number/Closed Date: 0713291 / 2008-03-17
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2008-03-17
CID: 444
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2008-03-17
Spill Record Last Update: 2008-03-17
Spiller Name: MIKE CARR\\
Spiller Company: GETTY#268
Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR\\
Contact Phone: (518) 369-7822 CELL
DEC Memo: "minor spill - all cleaned"
Remarks: "less then 1 gallon and all cleaned up"

Material:
Site ID: 395017
Operable Unit ID: 1151964
Operable Unit: 01
Material ID: 2142734
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0704838
Facility Type: ER
DER Facility ID: 201809
Site ID: 385058
DEC Region: 2
Spill Date: 2007-07-30
Spill Number/Closed Date: 0704838 / 2007-08-01
Spill Cause: Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

Reported to Dept: 2007-07-30
CID: 444
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2007-07-30
Spill Record Last Update: 2007-08-01
Spiller Name: MIKE CARR\\
Spiller Company: GETTY#268
Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR\\
Contact Phone: (518) 369-7822
DEC Memo: "No spill - pump shut down until repairs are made"
Remarks: "CUSTOMER DRIVE OFF NO GAS TO GROUND:"

Material:
Site ID: 385058
Operable Unit ID: 1142341
Operable Unit: 01
Material ID: 2132570
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0702919
Facility Type: ER
DER Facility ID: 201809
Site ID: 382738

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

DEC Region: 2
Spill Date: 2007-06-11
Spill Number/Closed Date: 0702919 / 2008-11-24
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2007-06-11
CID: 410
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2007-06-11
Spill Record Last Update: 2008-11-24
Spiller Name: EVAN STANKUNAS
Spiller Company: GETTY # 268
Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY 10472
Spiller Company: 001
Contact Name: EVAN STANKUNAS
Contact Phone: (845) 731-9382 CELL
DEC Memo: "See attached eDocs report. Hydraulic lift was removed. Endpoint soil samples were clean for VOCs and a couple of minor SVOC hits. Nothing large, OK to close."
Remarks: "SPILL WAS BASED ON ANALYTICAL DATA:"

Material:
Site ID: 382738
Operable Unit ID: 1140123
Operable Unit: 01
Material ID: 2130171
Material Code: 0010
Material Name: hydraulic oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0700963
Facility Type: ER
DER Facility ID: 201809
Site ID: 380356
DEC Region: 2
Spill Date: 2007-04-24
Spill Number/Closed Date: 0700963 / 2007-04-25
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2007-04-24
CID: 444
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Trust: Not reported
Remediation Phase: 0
Date Entered In Computer: 2007-04-24
Spill Record Last Update: 2007-04-25
Spiller Name: MIKE CARR
Spiller Company: GETTY#268
Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR
Contact Phone: (518) 369-7822
DEC Memo: "minor spill - all cleaned up"
Remarks: "LESS THEN 1 PINT AND IS ALL CLEANED UP"

Material:
Site ID: 380356

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

Operable Unit ID: 1137836
Operable Unit: 01
Material ID: 2127794
Material Code: 0043A
Material Name: antifreeze
Case No.: Not reported
Material FA: Other
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0612730
Facility Type: ER
DER Facility ID: 201809
Site ID: 377649
DEC Region: 2
Spill Date: 2007-02-23
Spill Number/Closed Date: 0612730 / 2008-08-18
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2007-02-23
CID: Not reported
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2007-02-23
Spill Record Last Update: 2008-08-18
Spiller Name: MIKE CARR
Spiller Company: GETTY # 268

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY 10472
Spiller Company: 001
Contact Name: MIKE CARR
Contact Phone: (518) 369-7822
DEC Memo: "Tyree submittal describes repairs made to system & cleanup - see eDocs"
Remarks: "SPILL DUE TO SHEEN ON WATER IN TANK TOP SUMPLS, WASTE OIL ON INNERSTICIAL SPACE ON UST: VAC TRUCK SCHEDULED:"

Material:
Site ID: 377649
Operable Unit ID: 1135172
Operable Unit: 01
Material ID: 2125063
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: 1.00
Resource Affected: Not reported
Oxygenate: Not reported
Site ID: 377649
Operable Unit ID: 1135172
Operable Unit: 01
Material ID: 2125064
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: 1.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0612649
Facility Type: ER
DER Facility ID: 201809
Site ID: 377538

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

DEC Region: 2
Spill Date: 2007-02-21
Spill Number/Closed Date: 0612649 / 2007-03-14
Spill Cause: Housekeeping
Spill Class: Not reported
SWIS: 0301
Investigator: smsanges
Referred To: Not reported
Reported to Dept: 2007-02-21
CID: 410
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2007-02-21
Spill Record Last Update: 2007-03-14
Spiller Name: MIKE CARR
Spiller Company: GETTY # 268
Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY 10472
Spiller Company: 001
Contact Name: MIKE CARR
Contact Phone: (518) 369-7822
DEC Memo: ""
Remarks: "ANSWER TO QUESTION IS NO: CLEANUP COMPLETE: MISSED BUCKET DURING CONTAINMENT':"

Material:
Site ID: 377538
Operable Unit ID: 1135070
Operable Unit: 01
Material ID: 2124959
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: .00
Resource Affected: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

Oxygenate: Not reported

Tank Test:

Facility ID: 0604641
Facility Type: ER
DER Facility ID: 201809
Site ID: 367653
DEC Region: 2
Spill Date: 2006-07-25
Spill Number/Closed Date: 0604641 / 2006-09-27
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: SMSANGES
Referred To: Not reported
Reported to Dept: 2006-07-25
CID: 444
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2006-07-25
Spill Record Last Update: 2006-09-27
Spiller Name: MIKE CARR
Spiller Company: GETTY #268
Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: MIKE CARR
Contact Phone: (518) 369-7822
DEC Memo: "Staining throughout the station No cleanup conducted."
Remarks: "STAINING AND CLEANED UP"

Material:
Site ID: 367653
Operable Unit ID: 1125558
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

Material ID: 2115079
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 0601534
Facility Type: ER
DER Facility ID: 201809
Site ID: 363794
DEC Region: 2
Spill Date: 2006-05-10
Spill Number/Closed Date: 0601534 / 2006-11-03
Spill Cause: Housekeeping
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: SMSANGES
Referred To: Not reported
Reported to Dept: 2006-05-10
CID: 409
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2006-05-10
Spill Record Last Update: 2006-11-03
Spiller Name: MIKE CARR
Spiller Company: GETTY 268
Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0810541 / 2009-02-13
ID/Status: 0809157 / 2008-11-18
ID/Status: 0713291 / 2008-03-17
ID/Status: 0704838 / 2007-08-01
ID/Status: 0702919 / 2008-11-24

Spiller Company: 001
Contact Name: MIKE CARR
Contact Phone: (518) 369-7822
DEC Memo: "staining throughout station on cement"
Remarks: "BOTH LESS THAN A GAL AND HAVE BEEN CLEANED UP."

Material:
Site ID: 363794
Operable Unit ID: 1121850
Operable Unit: 01
Material ID: 2111332
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: 1.00
Resource Affected: Not reported
Oxygenate: Not reported
Site ID: 363794
Operable Unit ID: 1121850
Operable Unit: 01
Material ID: 2111331
Material Code: 0022
Material Name: waste oil/used oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: 1.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9209035 / 2007-05-04
ID/Status: 0512577 / 2006-05-11
ID/Status: 211852
ID/Status: 358914
ID/Status: 9209035

LTANKS:
Site ID: 211852
Spill Number/Closed Date: 9209035 / 2007-05-04
Spill Date: 1992-11-04
Spill Cause: Tank Test Failure
Spill Source: Gasoline Station or other PBS Facility
Spill Class: Known release that creates potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: WXSUN
Referred To: Not reported
Reported to Dept: 1992-11-04
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1992-11-05
Spill Record Last Update: 2007-05-04
Spiller Name: Not reported
Spiller Company: GETTY
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller County: 999
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 201809
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 3/13/03 REASSIGNED FROM ROMMEL TO VOUGHT. 08/31/2005 - Feng - Project transferred from Vought to Feng. 10/19/2005 - Feng - File reviewed by Feng: Tank Closure Report, by Tyree, 11/1993. During 8/1993, ten (10) 550-gallon gasoline USTs were excavated and removed by Main Elmsford Company. Soil samples were collected. Environmental Site Investigation Report, by Tyree, 12/1993. During 10/1993, Tyree installed four (4) monitoring wells. no groundwater encountered. Levels of aromatic hydrocarbons detected in split spoon soil samples collected during drilling, exceeded NYSDEC Soil Guidance Values. Vapor Extraction Influence Pilot Test Report, by Tyree, 1/1995.

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9209035 / 2007-05-04
ID/Status: 0512577 / 2006-05-11
ID/Status: 211852
ID/Status: 358914
ID/Status: 9209035

During 1/1995, Tyree performed a Vapor Extraction Influence Pilot Test. Based upon findings of the vapor extraction influence pilot test a ROI of 15' can be achieved if a flow rate of 122 CFM at 20 of water is supplied to vapor extraction wells VW-1, VW-4, VW-5 and VW-7. Remedial Action Plan, by Tyree, 2/1995. Outlines design and construction details of the SVES to remediate soil contamination detected during removal of the former gasoline UST. SVES installed by Tyree, 4/1995. the SVES consists of six (6) 4-inch diameter vapor extraction wells which are individually manifolded to 2 diameter Schedule 40 PVC headers. The PVC headers are extended to a 12' squared concrete pad. The PV headers were then manifolded to a skid mounted SVE skid. The SVE skid consists of a Roots 5 hp positive displacement blower and is equiped with pressure and temperature switches, a vapor drop tank (coalescer) with high water level switch, and an integrated control panel. The SVE skid was started during 3/1996. Monitoring and gauging monthly on Vapor extraction wells VW-1 through VW-5, and VW-7 from the top of the well casings using a product/water interface probe. The SVES was inspected, monthly, during the 12/1998 through 2/1999 monitoring quarter. Semi Anuual Monitoring Report, by Tyree, 7/2003-12/2003. 6 monitoring wells on site, only 2 were sampled, the others wells were dry. groundwater flow southerly. Analyticals show 255.7ppb BTEX and MTBE below MDL in VW-1 (20.21' bg), 6409.9ppb BTEX and MTBE below MDL in VW-4 (19.05' bg). Semi Anuual Monitoring Report, by Tyree, 1/2004-6/2004. 6 monitoring wells on site, only 1 were sampled, the others wells were dry. groundwater flow southerly. Analyticals show 4676.6ppb BTEX and MTBE below MDL in VW-4 (18.5' bg). Semi Anuual Monitoring Report, by Tyree, 7/2004-12/2004. 6 monitoring wells on site, only 1 were sampled, the others wells were dry. groundwater flow southerly. Analyticals show 1408.5ppb BTEX and MTBE below MDL in VW-4 (18.64' bg). 05/04/07-Sun:Based on the Subsurface Investigation Report, dated November 2006 ,all of the groundwater samples collected from the sampling event were non detect, indicating that the groundwater has not been impacted from this spill.No free product was detected in any monitoring wells. Based on 1/2/07 data, BTEX ranged from non-detect to 2.53 ppb, and MTBE ranged from non-detect to 42 ppb.Based on these low concentrations of BTEX and MTBE and continued downward trend in concentrations of BTEX and MTBE and Sensitive Receptor Survey conducted for this site, the spill is closed and NFA letter will be issued. (Sun) "

Remarks: "4 @ 550 GALS WILL REPAIR IN MORNING"

Material:
Site ID: 211852

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9209035 / 2007-05-04
ID/Status: 0512577 / 2006-05-11
ID/Status: 211852
ID/Status: 358914
ID/Status: 9209035

Operable Unit ID: 975788
Operable Unit: 01
Material ID: 406103
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 211852
Spill Tank Test: 1540807
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Unknown

Site ID: 358914
Spill Number/Closed Date: 0512577 / 2006-05-11
Spill Date: 2006-01-30
Spill Cause: Tank Overfill
Spill Source: Passenger Vehicle
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SMSANGES
Referred To: Not reported
Reported to Dept: 2006-01-30
CID: 409
Water Affected: Not reported
Spill Notifier: Local Agency
Last Inspection: Not reported
Recommended Penalty: False

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100494277 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J48

NAME: GETTY S/S #268 - GETTY PROPERTIES
ADDRESS: 1185 BRONX RIVER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9209035 / 2007-05-04
ID/Status: 0512577 / 2006-05-11
ID/Status: 211852
ID/Status: 358914
ID/Status: 9209035

UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2006-01-30
Spill Record Last Update: 2006-05-11
Spiller Name: MIKE CARR
Spiller Company: GETTY# 268
Spiller Address: 1185 BRONX RIVER AVE
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: MIKE CARR
Spiller Phone: (518) 369-7822
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 201809
DEC Memo: "Closure document from Tyree attached Closed"
Remarks: "1 CUP THAT HAS BEEN CLEANED UP. SPEEDY DRY PLACED ON SPILL."

Material:
Site ID: 358914
Operable Unit ID: 1116140
Operable Unit: 01
Material ID: 2106284
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: 1.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415
ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-153524

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-153524
Program Type: PBS
UTM X: 594137.59454
UTM Y: 4520224.56367
Expiration Date: 06/05/2017
Site Type: Retail Gasoline Sales

Affiliation Records:
Site Id: 4866
Affiliation Type: On-Site Operator
Company Name: GLOBAL MONTELLO GROUP #5415
Contact Type: Not reported
Contact Name: STEVE CHARRON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 842-5381
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2013-05-31

Site Id: 4866
Affiliation Type: Emergency Contact
Company Name: LEEMILTS PETROLEUM
Contact Type: Not reported
Contact Name: CALL CENTER
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (888) 674-7601
EMail: Not reported
Fax Number: Not reported
Modified By: LNROSARI
Date Last Modified: 2016-01-08

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415
ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-153524

Site Id: 4866
Affiliation Type: Facility Owner
Company Name: LEEMILTS PETROLEUM
Contact Type: Not reported
Contact Name: Not reported
Address1: 125 JERICHO TURNPIKE
Address2: Not reported
City: JERICHO
State: NY
Zip Code: 11753
Country Code: 001
Phone: (516) 478-5400
EMail: Not reported
Fax Number: Not reported
Modified By: MXLAY
Date Last Modified: 2016-05-03

Site Id: 4866
Affiliation Type: Mail Contact
Company Name: GLOBAL MONTELLO GROUP CORP.
Contact Type: Not reported
Contact Name: STEVEN CHARRON
Address1: P.O. BOX 549290
Address2: 800 SOUTH STREET, SUITE 500
City: WALTHAM
State: MA
Zip Code: 02454
Country Code: 001
Phone: (781) 786-6320
EMail: SCHARRON@GLOBALP.COM
Fax Number: Not reported
Modified By: CGFREEDM
Date Last Modified: 2014-09-24

Tank Info:

Tank Number: 004
Tank Id: 230827
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415
ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-153524

H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
K01 - Spill Prevention - Catch Basin
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
G10 - Tank Secondary Containment - Impervious Underlayment
B01 - Tank External Protection - Painted/Asphalt Coating
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
J00 - Dispenser - None
F00 - Pipe External Protection - None
Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 09/01/2009
Capacity Gallons: 280
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NRLOMBAR
Last Modified: 05/31/2013
Material Name: Not reported

Tank Number: 4
Tank Id: 57616
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
K01 - Spill Prevention - Catch Basin
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
G10 - Tank Secondary Containment - Impervious Underlayment

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-153524

B01 - Tank External Protection - Painted/Asphalt Coating
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
J00 - Dispenser - None
B05 - Tank External Protection - Jacketed
F00 - Pipe External Protection - None
Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 06/01/1993
Capacity Gallons: 180
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 09/01/2009
Register: True
Modified By: NRLOMBAR
Last Modified: 09/25/2009
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

UST:
Id/Status: 2-153524 / Active
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 06/05/2017
UTM X: 594137.59454
UTM Y: 4520224.56367
Site Type: Retail Gasoline Sales

Affiliation Records:
Site Id: 4866
Affiliation Type: On-Site Operator
Company Name: GLOBAL MONTELLO GROUP #5415
Contact Type: Not reported
Contact Name: STEVE CHARRON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 842-5381
EMail: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2013-05-31

Site Id: 4866
Affiliation Type: Emergency Contact
Company Name: LEEMILTS PETROLEUM
Contact Type: Not reported
Contact Name: CALL CENTER
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (888) 674-7601
EMail: Not reported
Fax Number: Not reported
Modified By: LNROSARI
Date Last Modified: 2016-01-08

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

Site Id: 4866
Affiliation Type: Facility Owner
Company Name: LEEMILTS PETROLEUM
Contact Type: Not reported
Contact Name: Not reported
Address1: 125 JERICHO TURNPIKE
Address2: Not reported
City: JERICHO
State: NY
Zip Code: 11753
Country Code: 001
Phone: (516) 478-5400
EMail: Not reported
Fax Number: Not reported
Modified By: MXLAY
Date Last Modified: 2016-05-03

Site Id: 4866
Affiliation Type: Mail Contact
Company Name: GLOBAL MONTELLO GROUP CORP.
Contact Type: Not reported
Contact Name: STEVEN CHARRON
Address1: P.O. BOX 549290
Address2: 800 SOUTH STREET, SUITE 500
City: WALTHAM
State: MA
Zip Code: 02454
Country Code: 001
Phone: (781) 786-6320
EMail: SCHARRON@GLOBALP.COM
Fax Number: Not reported
Modified By: CGFREEDM
Date Last Modified: 2014-09-24

Tank Info:

Tank Number: 001
Tank ID: 46504
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 06/01/1993
Date Tank Closed: Not reported
Registered: True

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 05/03/2013
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: BKFALVEY
Last Modified: 08/05/2013

Equipment Records:
I02 - Overfill - High Level Alarm
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
F04 - Pipe External Protection - Fiberglass
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
B04 - Tank External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
G04 - Tank Secondary Containment - Double-Walled (Underground)
J01 - Dispenser - Pressurized Dispenser
H99 - Tank Leak Detection - Other

Tank Number: 002
Tank ID: 46505
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 06/01/1993
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 05/03/2013
Next Test Date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

Pipe Model: Not reported
Modified By: BKFALVEY
Last Modified: 08/05/2013

Equipment Records:
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
I02 - Overfill - High Level Alarm
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
A00 - Tank Internal Protection - None
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
B04 - Tank External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
G04 - Tank Secondary Containment - Double-Walled (Underground)
H99 - Tank Leak Detection - Other
J01 - Dispenser - Pressurized Dispenser

Tank Number: 003
Tank ID: 46506
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 4000
Install Date: 06/01/1993
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 05/03/2013
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 08/26/2013

Equipment Records:
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

L07 - Piping Leak Detection - Pressurized Piping Leak Detector
I02 - Overfill - High Level Alarm
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
E04 - Piping Secondary Containment - Double walled UG
G04 - Tank Secondary Containment - Double-Walled (Underground)
J01 - Dispenser - Pressurized Dispenser
H99 - Tank Leak Detection - Other

Tank Number: 004-A
Tank ID: 57617
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
G00 - Tank Secondary Containment - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 005

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

Tank ID: 8138
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
G00 - Tank Secondary Containment - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 006
Tank ID: 8139
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 007
Tank ID: 8140
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
G00 - Tank Secondary Containment - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 008
Tank ID: 8141
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
G00 - Tank Secondary Containment - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 009
Tank ID: 8142
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 010
Tank ID: 8143
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
G00 - Tank Secondary Containment - None
I00 - Overfill - None

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 011
Tank ID: 8144
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 08/01/1991
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: 012
Tank ID: 8145
Tank Status: Closed - Removed
Material Name: Closed - Removed

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 08/01/1991
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:
G00 - Tank Secondary Containment - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: OO1
Tank ID: 8135
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

Modified By: NRLOMBAR
Last Modified: 05/31/2013

Equipment Records:
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
F00 - Pipe External Protection - None

Tank Number: OO2
Tank ID: 8136
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 4000
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 11/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 05/31/2013

Equipment Records:
I02 - Overfill - High Level Alarm
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G10 - Tank Secondary Containment - Impervious Underlayment
B04 - Tank External Protection - Fiberglass
G04 - Tank Secondary Containment - Double-Walled (Underground)
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
J01 - Dispenser - Pressurized Dispenser

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

UST

EDR ID: U004107507 **DIST/DIR:** 0.111 SSE **ELEVATION:** 20 **MAP ID:** J49

NAME: GLOBAL MONTELLO GROUP CORP. #5415 **Rev:** 12/28/2016

ADDRESS: 1185 BRONX RIVER AVENUE
BRONX, NY 10465
BRONX

SOURCE: NY Department of Environmental Conservation

H99 - Tank Leak Detection - Other
H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Number: OO3
Tank ID: 8137
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 4000
Install Date: 05/01/1946
Date Tank Closed: 06/01/1993
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 01/01/1992
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 05/31/2013

Equipment Records:
I02 - Overfill - High Level Alarm
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
B04 - Tank External Protection - Fiberglass
G10 - Tank Secondary Containment - Impervious Underlayment
G04 - Tank Secondary Containment - Double-Walled (Underground)
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
H99 - Tank Leak Detection - Other
J01 - Dispenser - Pressurized Dispenser
H05 - Tank Leak Detection - In-Tank System (ATG)

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S104509832 **DIST/DIR:** 0.116 ESE **ELEVATION:** 24 **MAP ID:** 50

NAME: SERVICE BOX 2252

ADDRESS: 1230 COLGATE AV
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9912859 / 2000-03-02
ID/Status: 9912859
ID/Status: 162355

SPILLS:
Facility ID: 9912859
Facility Type: ER
DER Facility ID: 137001
Site ID: 162355
DEC Region: 2
Spill Date: 2000-02-11
Spill Number/Closed Date: 9912859 / 2000-03-02
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: JHOCONNE
Referred To: Not reported
Reported to Dept: 2000-02-11
CID: 211
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2000-02-11
Spill Record Last Update: 2000-05-22
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: STEVEN CRIBBIN
Contact Phone: (212) 580-8576
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'CONNELL CON ED E2 MIS REPORT 2/11/00 Oily sheen on approx. (100) gallons of water, Conduit plate 12-M indicates no sewer connection. 2/11/00 @12:00hrs. cleanup is in progress but will take longer than the two hours mentioned earlier, sheen is being soaked up with diapers. 2/11/00 @12:45 hrs. sheen in service box #2252 has been vleaned up (1) plastic bag of absorbant diapers was generated an dwill be disposed as industrial waste."
Remarks: "sheen found on water - clean up in progress - con ed 129948"

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S104509832 **DIST/DIR:** 0.116 ESE **ELEVATION:** 24 **MAP ID:** 50

NAME: SERVICE BOX 2252

ADDRESS: 1230 COLGATE AV
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9912859 / 2000-03-02
ID/Status: 9912859
ID/Status: 162355

Material:
Site ID: 162355
Operable Unit ID: 1087396
Operable Unit: 01
Material ID: 294724
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S104283150 **DIST/DIR:** 0.120 WSW **ELEVATION:** 49 **MAP ID:** 51

NAME: MANHOLE 495

ADDRESS: WEST FARM RD/ FREEDMAN ST
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9908693 / 2002-02-22
ID/Status: 9908693
ID/Status: 298677

SPILLS:
Facility ID: 9908693
Facility Type: ER
DER Facility ID: 241638
Site ID: 298677
DEC Region: 2
Spill Date: 1999-10-18
Spill Number/Closed Date: 9908693 / 2002-02-22
Spill Cause: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: COMENALE
Referred To: Not reported
Reported to Dept: 1999-10-18
CID: 382
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1999-10-18
Spill Record Last Update: 2002-02-22
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: STEVEN CRIBBIN
Contact Phone: (212) 580-8576
DEC Memo: ""
Remarks: "2 gals of oil found ontop of the transformer. clean up pending lab results. con ed 128-499"

Material:
Site ID: 298677
Operable Unit ID: 1082979
Operable Unit: 01
Material ID: 297800
Material Code: 0066A
Material Name: unknown petroleum

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S104283150 **DIST/DIR:** 0.120 WSW **ELEVATION:** 49 **MAP ID:** 51

NAME: MANHOLE 495

ADDRESS: WEST FARM RD/ FREEDMAN ST
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9908693 / 2002-02-22
ID/Status: 9908693
ID/Status: 298677

Case No.: Not reported
Material FA: Petroleum
Quantity: 2.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1014918753 **DIST/DIR:** 0.121 SSW **ELEVATION:** 33 **MAP ID:** K52

NAME: CON EDISON MANHOLE 21800
ADDRESS: WESTCHESTER AVE & WHITLOCK AVE
BRONX, NY 10459
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYP004223723

RCRA NonGen / NLR:
Date form received by agency: 02/11/2011
Facility name: CON EDISON MANHOLE 21800
Facility address: WESTCHESTER AVE & WHITLOCK AVE
BRONX, NY 10459
EPA ID: NYP004223723
Mailing address: IRVING PL RM 828
NEW YORK, NY 10003
Contact: GINO FRABASILE
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (914) 925-6219
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/12/2011
Site name: CON EDISON MANHOLE 21800
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102560528 **DIST/DIR:** 0.122 ESE **ELEVATION:** 22 **MAP ID:** 53

NAME: WELFARE OFFICE BLDG - GETTY PROPERTIES #329
ADDRESS: 1209 COLGATE AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9712845 / 1998-02-18
ID/Status: 9704954 / 1997-11-19
ID/Status: 9700109 / 2012-09-25
ID/Status: 9700109
ID/Status: 9704954

SPILLS:
Facility ID: 9712845
Facility Type: ER
DER Facility ID: 119911
Site ID: 140405
DEC Region: 2
Spill Date: 1998-02-18
Spill Number/Closed Date: 9712845 / 1998-02-18
Spill Cause: Unknown
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: MCTIBBE
Referred To: Not reported
Reported to Dept: 1998-02-18
CID: 266
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Affected Persons
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1998-02-18
Spill Record Last Update: 1998-02-18
Spiller Name: Not reported
Spiller Company: GETTY GAS STATION
Spiller Address: BRONX RIVER AV & WESTCHES
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: BARBARA QUINLAN
Contact Phone: (718) 589-2002
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE REFER TO 97-00109. SEE ALSO 97-04954 & 95-04305. "
Remarks: "ONGOING PROBLEM. EVERYTIME IT RAINS, FUMES ENTER BUILDING THROUGH BASEMENT. CALLER STATES THAT DEC HAS BEEN NOTIFIED OF THIS BEFORE. CALLER ADVISED TO CALL FIRE DEPARTMENT IF ANYONE BECOMES SICK THERE."

Material:
Site ID: 140405
Operable Unit ID: 1055696
Operable Unit: 01
Material ID: 327430

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102560528 **DIST/DIR:** 0.122 ESE **ELEVATION:** 22 **MAP ID:** 53

NAME: WELFARE OFFICE BLDG - GETTY PROPERTIES #329
ADDRESS: 1209 COLGATE AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9712845 / 1998-02-18
ID/Status: 9704954 / 1997-11-19
ID/Status: 9700109 / 2012-09-25
ID/Status: 9700109
ID/Status: 9704954

Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 9704954
Facility Type: ER
DER Facility ID: 69997
Site ID: 74617
DEC Region: 2
Spill Date: 1997-07-25
Spill Number/Closed Date: 9704954 / 1997-11-19
Spill Cause: Unknown
Spill Class: Known release that creates potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: MCTIBBE
Referred To: Not reported
Reported to Dept: 1997-07-25
CID: 369
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Citizen
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1997-07-25
Spill Record Last Update: 1998-02-18
Spiller Name: UNKNOWN
Spiller Company: GAS STATION NEXT DOOR TO
Spiller Address: 1209 COLGATE AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102560528 **DIST/DIR:** 0.122 ESE **ELEVATION:** 22 **MAP ID:** 53

NAME: WELFARE OFFICE BLDG - GETTY PROPERTIES #329
ADDRESS: 1209 COLGATE AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9712845 / 1998-02-18
ID/Status: 9704954 / 1997-11-19
ID/Status: 9700109 / 2012-09-25
ID/Status: 9700109
ID/Status: 9704954

Contact Name: MRS QUINLAN
Contact Phone: (718) 589-2064
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE GETTY GAS STATION, REFER TO 97-00109. SEE ALSO 97-12845 & 95-04305. "
Remarks: "FD EVACUATED HUD HOUSING PROJECT YESTERDAY FOR SAME PROBLEM-SMELL OF GASOLINE IS COMING THROUGH BASEMENT WALL-CALLER STATES IT IS COMING FROM GAS STATION NEXT DOOR-NO ADRESS OR PHONE FOR IT"

Material:
Site ID: 74617
Operable Unit ID: 1048333
Operable Unit: 01
Material ID: 334190
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Facility ID: 9700109
Facility Type: ER
DER Facility ID: 301694
Site ID: 74616
DEC Region: 2
Spill Date: 1997-04-02
Spill Number/Closed Date: 9700109 / 2012-09-25
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: KGHALE
Referred To: DPES SHUTDOWN 12/2006, NEED LOWER BENZENE LEVEL
Reported to Dept: 1997-04-02
CID: 370
Water Affected: Not reported
Spill Source: Gasoline Station or other PBS Facility
Spill Notifier: Fire Department

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102560528 **DIST/DIR:** 0.122 ESE **ELEVATION:** 22 **MAP ID:** 53

NAME: WELFARE OFFICE BLDG - GETTY PROPERTIES #329
ADDRESS: 1209 COLGATE AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9712845 / 1998-02-18
ID/Status: 9704954 / 1997-11-19
ID/Status: 9700109 / 2012-09-25
ID/Status: 9700109
ID/Status: 9704954

Cleanup Ceased: 1998-01-06
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: True
Remediation Phase: 0
Date Entered In Computer: 1997-04-02
Spill Record Last Update: 2012-09-25
Spiller Name: Not reported
Spiller Company: GAS STATION NEXT DOOR
Spiller Address: 1441 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller Company: 001
Contact Name: ABOVE
Contact Phone: Not reported
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT SEE ALSO 97-04954 & 97-12845 & 95-04305. CHANGE DEC INVESTIGATOR TO VOUGHT 3/27/03 REASSIGNED FROM ROMMEL TO VOUGHT. 10/20/2005 - case reviewed by Feng: Received a complaint of gasoline vapors at 1209 Colgate Ave in Bronx (97-00109). Getty service station located next door @ 1441 Westchester ave, had a tank overfill. This gasoline traveled underground into the basement of 1209 Colgate Ave. This overfill compounded an existing soil and groundwater problem from the former gasonline tanks (#95-04305). STIP on January 6, 1998. by sighing this STIP, Getty takes the responsiblity of cleanup of 1209 Colgate Ave contamination. Dual Phase Extraction System has been on to address the contamination. Quarterly Monitoring Report, 3/2005 - 5/2005. Quarterly gauging and sampling. groundwater flow in west direction. 20 monitoring wells onsite. BTEX and MTBE in low concentration, such as 93.39ppb BTEX and 37.4ppb MTBE in W-1 (12.16' bg). 11/16/2006 - Feng - Quarterly Monitoring Report, 5/2006 - 7/2006, 7/2006, by Tyree. Active gasoline retail/service station. Groundwater sampled and gauged 7/3/2006. 20 monitoring wells. DTW 10.70' to 14.55' bg. Flow direction west. No LNAPL. BTEX range ND to 680.7 ppb (MW-4). MTBE range ND to 16.4 ppb (MW-6). Monthly inspection of the air stripper system and the SVE system. No effluent samples taken this quarter until system fixed. (RJF) 11/17/2006 - Feng - Quarterly Monitoring Report, 8/2006 - 10/2006, 10/2006, by Tyree. Active gasoline retail/service station. Groundwater sampled and gauged 10/18/2006. 20 monitoring wells. DTW 9.07' to 14.75' bg. Flow direction west. No LNAPL. BTEX range ND to 662.1 ppb (MW-4). MTBE range ND to 18.2 ppb (MW-6). 1/18/2007 - Feng - Getty Properties portfolio meeting with Tyree and Delta. System shutdown 12/2006 and quarterly monitoring for 2007. (RJF) 2/22/2007 - Feng - Quarterly Monitoring Report, 10/2006 - 1/2007, 1/2007, by Tyree. Active

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102560528 **DIST/DIR:** 0.122 ESE **ELEVATION:** 22 **MAP ID:** 53

NAME: WELFARE OFFICE BLDG - GETTY PROPERTIES #329
ADDRESS: 1209 COLGATE AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9712845 / 1998-02-18
ID/Status: 9704954 / 1997-11-19
ID/Status: 9700109 / 2012-09-25
ID/Status: 9700109
ID/Status: 9704954

gasoline retail/service station. Groundwater sampled and gauged 1/2/2007. 20 monitoring wells. DTW 9.20' to 13.17' bg. Flows westerly. No LNAPL. MW-1, BTEX BDL, 4.2 ppb MTBE. MW-2, 11.99 ppb BTEX, 2.4 ppb MTBE. MW-3, BTEX BDL, 3.1 ppb MTBE. MW-4, 511.3 ppb BTEX, 21.1 ppb MTBE. MW-5, 125.2 ppb BTEX, 18.9 ppb MTBE. MW-6, 270.7 ppb BTEX, 19 ppb MTBE. MW-7, BDL. MW-8, BTEX BDL, 1.4 ppb MTBE. MW-9, 0.52 ppb BTEX, 1.9 ppb MTBE. MW-10, BTEX BDL, 0.85 ppb MTBE. MW-11, 52.95 ppb BTEX, 15.1 ppb MTBE. MW-12, BDL. MW-13, BTEX BDL, 12 ppb MTBE. MW-14, BDL. MW-15, 77 ppb BTEX, 10.2 ppb MTBE. MW-16, BTEX BDL, 8.98 ppb MTBE. MW-17, BTEX BDL, 0.66 ppb MTBE. MW-18, BTEX BDL, 3.5 ppb MTBE. GPW-1, not sampled. GPW-2, BTEX BDL, 7 ppb MTBE. (RJF) 7/3/2007 - Feng - Quarterly Monitoring Report, 2/2007 - 5/2007, 5/2007. Groundwater sampled 4/26/2007. 20 monitoring wells. DTW 9.63' to 12.5' bg. Flows to west. No LNAPL. BTEX range ND to 144.67 ppb (MW-4). MTBE range ND to 18.9 ppb (MW-5). (RJF) 9/28/2007 - Feng - Quarterly Monitoring Report, 5/2007 - 7/2007, 7/2007. Groundwater sampled 7/23/2007. 20 monitoring wells. DTW 8.96' to 14.59' bg. Flows to west. No LNAPL. MW-4, 384.6 ppb BTEX, 8.3 ppb MTBE. MW-5, 48.9 ppb BTEX, 6.9 ppb MTBE. MW-6, 193.3 ppb BTEX, 11.7 ppb MTBE. The other wells are BDL or low. (RJF) 10/2/2007 - Feng - Sensitive Receptor Survey, 7/20/2007. Tyree requested spill closure. The dual phase extraction system was shutdown 12/2006. It needs 8 quarters of monitoring after the remedial system is shutdown. Groundwater concentration is fluctuating in MW-4. Spill closure denied. (RJF) 11/8/2007 - Feng - Portfolio meeting with Delta and Tyree. The benzene level is still high as indicated in the quarterly report. Need to reduce the benzene level for closure. (RJF) 1/23/2008 - Feng - Quarterly Monitoring Report, 8/2007 - 10/2007, 10/2007. Active gasline retail/service station. Groundwater gauged and sampled 10/9/2007. 20 monitoring wells. DTW 9.61' to 13' bg. Flows to west. No LNAPL. BTEX range ND to 363.1 ppb (MW-4). MTBE range ND to 48.7 ppb (MW-3). (RJF) 5/14/2008 - Feng - Quarterly Monitoring Report, 11/2007 - 1/2008, 3/2008. Active gasoline retail/service station. Groundwater was gauged and sampled 1/16/2008. 20 monitoring wells. DTW 9.00' to 14.64' bg. Flows to west. No LNAPL. BTEX range ND to 403.4 ppb (MW-4). MTBE range ND to 9.6 ppb. (RJF) 7/11/2008 - 2Q2008, 2/2008 - 5/2008, 5/2008. Active gasoline retail service station. Groundwater was gauged and sampled 4/23/2008. 20 monitoring wells. DTW 9.93' to 14.16' bg. Flows to west. No LNAPL. BTEX range ND to 472 ppb (MW-4). MTBE range ND to 22 ppb (MW-3). Email to Tyree for additional remediation to address the benzene problem. (RJF) 9/4/2008 - Getty Properties portfolio meeting with Tyree and Delta. Need to bring down the benzene level for closure. Will put borings in the historical contaminated area. Petition plan for closure by 1Q2009. (RJF) 1/6/2009 - Getty Properties portfolio meeting with Tyree and

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102560528 **DIST/DIR:** 0.122 ESE **ELEVATION:** 22 **MAP ID:** 53

NAME: WELFARE OFFICE BLDG - GETTY PROPERTIES #329
ADDRESS: 1209 COLGATE AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9712845 / 1998-02-18
ID/Status: 9704954 / 1997-11-19
ID/Status: 9700109 / 2012-09-25
ID/Status: 9700109
ID/Status: 9704954

Delta. Closure petition plan by 3/2009. (RJF) 4/20/2009 - Quarterly Monitoring Report, 6/2008 - 8/2008, 9/2008, by Tyree. Active gasoline retail service station. Groundwater was gauged and sampled 7/31/2008. 20 monitoring wells. DTW 9.34' to 14.72' bg. Flows to west. NO LNAPL> BTEX range ND to 362 ppb (W-4). MTBE range ND to 49.2 ppb (W-3). System turned off as of December 2006 due to low effluent levels and low groundwater levels. (RJF) 4/23/2009 - Reviewed Investigation Work Plan, dated 3/20/2009, by Tyree. Tyree proposed 3 soil borings. DEC provided comments on the work plan and email to Tyree. see eDocs. Revision due 5/23/2009. (RJF) 6/8/2009 - Reviewed Investigation Work Plan revision, dated 5/6/2009, by Tyree. Tyree proposed 8 soil borings, will run STARS for every borings, and run TCLP for 3 soil borings. Work plan is approved. Investigation Report due within 90 days of the approval, 9/8/2009. (RJF) 6/18/2009 - Quarterly Monitoring Report, 1/2009 - 3/2009, 5/2009, pdf via email, by Tyree. Active gasoline retail service station. Monthly gauging and quarterly sampling. Groundwater was sampled 3/27/2009. 20 monitoring wells. DTW 9.73' (MW-18) to 14.34' (MW-16) bgs. Flows to west. NO LNAPL. BTEX range ND to 312.5 ppb (MW-4), residual mainly is benzene. MTBE range ND to 44.7 ppb (MW-3). System turned off as of 12/2006 due to low effluent levels and low groundwater levels. (RJF) 2/1/2012 - KGH meets with R2 staff to discuss Getty Bankruptcy Case and closure petitions. Consensus of senior staff is that Spill # 97-00109 has been cleaned-up significantly and it is appropriate to consider closure 9/25/2012 - 2/8/12 - KGH - Vapor impacts to neighboring buildings first grought this site to DEC attention. This was quickly resolved by NYFD & DEC Spills Unit. Inaccesible residual soil contamination may remain beneath this active retail station but will biodegrade over time and present no off-site impacts. GW concentrations have steadily decreased and have remained beneath 0.25 ppm Total BTEX for several years. The Department is requiring No Further Action at this time. Spill is being closed as currently Not Meeting Standards. Additional data may be submitted in the future for consideration of an upgrade in closure status. NFA"

Remarks: "FIRE DEPT HAZ MAT TEAM THINKS THERE IS A LEAK IN AN UNDERGROUND TANK - THEY REQ A REP FROM DEC TO RESPOND"

Material:
Site ID: 74616
Operable Unit ID: 1042824
Operable Unit: 01
Material ID: 336721
Material Code: 0009
Material Name: gasoline
Case No.: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: S102560528 **DIST/DIR:** 0.122 ESE **ELEVATION:** 22 **MAP ID:** 53

NAME: WELFARE OFFICE BLDG - GETTY PROPERTIES #329
ADDRESS: 1209 COLGATE AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9712845 / 1998-02-18
ID/Status: 9704954 / 1997-11-19
ID/Status: 9700109 / 2012-09-25
ID/Status: 9700109
ID/Status: 9704954

Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: 1004759428 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L54

NAME: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
ADDRESS: 1434 LONGFELLOW AVE
BRONX, NY 10460
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1103358 / 2011-09-19
ID/Status: 1103358
ID/Status: 450919

SPILLS:
Facility ID: 1103358
Facility Type: ER
DER Facility ID: 405468
Site ID: 450919
DEC Region: 2
Spill Date: 2011-06-24
Spill Number/Closed Date: 1103358 / 2011-09-19
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
SWIS: 0301
Investigator: RMPIPER
Referred To: Not reported
Reported to Dept: 2011-06-24
CID: Not reported
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2011-06-24
Spill Record Last Update: 2011-09-19
Spiller Name: Not reported
Spiller Company: PS 84
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: AXEL SCHWENDT
Contact Phone: (646) 388-9529
DEC Memo: "School is upgrading the elevator. Contractor pulled the piston and discovered some hydraulic oil in the 24ft piston hole in bedrock. Hole was bailed out and now they are planning what additional work is needed. Bore hole was pumped of water and oil. Recharge rate was observed to be very little over the course of a few days. Bore hole pumped again though minimal water and no product. Bore will be overdrilled to accomodate larger piston for larger elevator. Spill can be closed after submission of work to date, disposal for additional cuttings. 9/8/2011- AKRF was on site to conduct screening of the soil during the over-drilling of the piston hole. No staining

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

NY Spills

EDR ID: 1004759428 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L54

NAME: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
ADDRESS: 1434 LONGFELLOW AVE
BRONX, NY 10460
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1103358 / 2011-09-19
ID/Status: 1103358
ID/Status: 450919

or odors were noted during the drilling activities. All soil was containerized into 55-gallon drums, analyzed for waste characterization, and shipped off-site for disposal. Based on nature of spill and work to date, this spill is closed."
Remarks: "elevator piston pulled out of ground - found leaking - cleanup in progress"

Material:
Site ID: 450919
Operable Unit ID: 1201119
Operable Unit: 01
Material ID: 2197618
Material Code: 0010
Material Name: hydraulic oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 10.00
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-SQG

EDR ID: 1004759428 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L54

NAME: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Rev: 12/12/2016
ID/Status: NYR000010553

ADDRESS: 1434 LONGFELLOW AVE
BRONX, NY 10460
BRONX

SOURCE: US Environmental Protection Agency

RCRA-SQG:
Date form received by agency: 10/21/2014
Facility name: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Facility address: 1434 LONGFELLOW AVE
BRONX, NY 10460
EPA ID: NYR000010553
Mailing address: THOMSON AVE
LONG ISLAND CITY, NY 11101
Contact: ALEXANDER LEMPERT
Contact address: THOMSON AVE
LONG ISLAND CITY, NY 11101
Contact country: US
Contact telephone: (718) 472-8501
Contact email: ALEMPERT@NYCSCA.ORG
EPA Region: 02
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NYC BOARD OF EDUCATION
Owner/operator address: 28-11 QUEENS PLZ N
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: (718) 349-5600
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYC BOARD OF EDUCATION
Owner/operator address: THOMSON AVE
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: (718) 472-8501
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 01/26/1972
Owner/Op end date: Not reported

Owner/operator name: NYC BOARD OF EDUCATION

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-SQG

EDR ID: 1004759428 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L54

NAME: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Rev: 12/12/2016
ID/Status: NYR000010553

ADDRESS: 1434 LONGFELLOW AVE
BRONX, NY 10460
BRONX

SOURCE: US Environmental Protection Agency

Owner/operator address: THOMSON AVE
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: (718) 472-8501
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: 01/26/1972
Owner/Op end date: Not reported

Owner/operator name: NYC BOARD OF EDUCATION
Owner/operator address: 28-11 QUEENS PLZ N
LONG ISLAND CITY, NY 11101
Owner/operator country: US
Owner/operator telephone: (718) 349-5600
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: B004
. Waste name: B004

. Waste code: B007
. Waste name: B007

Historical Generators:
Date form received by agency: 01/01/2007

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-SQG

EDR ID: 1004759428 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L54

NAME: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Rev: 12/12/2016
ID/Status: NYR000010553

ADDRESS: 1434 LONGFELLOW AVE
BRONX, NY 10460
BRONX

SOURCE: US Environmental Protection Agency

Site name: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Site name: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Classification: Not a generator, verified

Date form received by agency: 08/08/1995
Site name: NYC BD OF ED - PUBLIC SCHOOL 84 BRONX
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U003394062 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L55

NAME: P.S. 811 (OLD I84) - BRONX X084
ADDRESS: 1434 LONGFELLOW AVENUE
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-351903

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-351903
Program Type: PBS
UTM X: 593811.08188
UTM Y: 4520564.84106
Expiration Date: 06/28/2018
Site Type: School

Affiliation Records:
Site Id: 17394
Affiliation Type: Mail Contact
Company Name: NYC DEPARTMENT OF EDUCATION
Contact Type: Not reported
Contact Name: MUNENDRA SHARMA
Address1: FIELD OPERATIONS-FUEL DIVISION
Address2: 44-36 VERNON BOULEVARD
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 349-5752
EMail: MSHARMA@SCHOOLS.NYC.GOV
Fax Number: Not reported
Modified By: MRBARROW
Date Last Modified: 2016-09-12

Site Id: 17394
Affiliation Type: Facility Owner
Company Name: NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type: Not reported
Contact Name: Not reported
Address1: 44-36 VERNON BOULEVARD
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 349-5752
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2016-12-19

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U003394062 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L55

NAME: P.S. 811 (OLD I84) - BRONX X084
ADDRESS: 1434 LONGFELLOW AVENUE
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-351903

Site Id: 17394
Affiliation Type: Emergency Contact
Company Name: NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type: Not reported
Contact Name: KEN MAHADEO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (646) 210-7918
EMail: Not reported
Fax Number: Not reported
Modified By: DAFRANCI
Date Last Modified: 2016-10-17

Site Id: 17394
Affiliation Type: On-Site Operator
Company Name: P.S. 811 (OLD I84) - BRONX X084
Contact Type: Not reported
Contact Name: ALEKCI JUNKOVIC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 589-3450
EMail: Not reported
Fax Number: Not reported
Modified By: MXLAY
Date Last Modified: 2016-05-25

Tank Info:

Tank Number: 001
Tank Id: 34087
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
B01 - Tank External Protection - Painted/Asphalt Coating
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U003394062 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L55

NAME: P.S. 811 (OLD I84) - BRONX X084
ADDRESS: 1434 LONGFELLOW AVENUE
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-351903

A00 - Tank Internal Protection - None
I02 - Overfill - High Level Alarm
L00 - Piping Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K01 - Spill Prevention - Catch Basin
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
G02 - Tank Secondary Containment - Vault (w/access)
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 02/29/1972
Capacity Gallons: 15000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: MXLAY
Last Modified: 05/25/2016
Material Name: Not reported

Tank Number: 002
Tank Id: 34088
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K01 - Spill Prevention - Catch Basin
B01 - Tank External Protection - Painted/Asphalt Coating
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U003394062 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L55

NAME: P.S. 811 (OLD I84) - BRONX X084
ADDRESS: 1434 LONGFELLOW AVENUE
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-351903

A00 - Tank Internal Protection - None
I02 - Overfill - High Level Alarm
L00 - Piping Leak Detection - None
G02 - Tank Secondary Containment - Vault (w/access)
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 02/29/1972
Capacity Gallons: 15000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: MXLAY
Last Modified: 05/25/2016
Material Name: Not reported

Tank Number: 003
Tank Id: 245637
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
B01 - Tank External Protection - Painted/Asphalt Coating
G06 - Tank Secondary Containment - Remote Impounding Area
D01 - Pipe Type - Steel/Carbon Steel/Iron
E06 - Piping Secondary Containment - Remote Impounding Area
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
F00 - Pipe External Protection - None
I05 - Overfill - Vent Whistle
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: 06/12/2011
Capacity Gallons: 4000

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U003394062 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L55

NAME: P.S. 811 (OLD I84) - BRONX X084
ADDRESS: 1434 LONGFELLOW AVENUE
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-351903

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 10/12/2012
Register: True
Modified By: NRLOMBAR
Last Modified: 12/16/2013
Material Name: Not reported

Tank Number: 004
Tank Id: 250588

Equipment Records:
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
L00 - Piping Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
I05 - Overfill - Vent Whistle
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 05/03/1991
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NRLOMBAR
Last Modified: 12/16/2013
Material Name: Not reported

Tank Number: 005
Tank Id: 250589

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

AST

EDR ID: U003394062 **DIST/DIR:** 0.122 WNW **ELEVATION:** 50 **MAP ID:** L55

NAME: P.S. 811 (OLD I84) - BRONX X084

ADDRESS: 1434 LONGFELLOW AVENUE
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 12/28/2016
ID/Status: 2-351903

Equipment Records:
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
I02 - Overfill - High Level Alarm
L00 - Piping Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
J02 - Dispenser - Suction Dispenser
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
B01 - Tank External Protection - Painted/Asphalt Coating
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 05/03/1991
Capacity Gallons: 30
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: NRLOMBAR
Last Modified: 12/16/2013
Material Name: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA NonGen / NLR

EDR ID: 1018277768 **DIST/DIR:** 0.125 WSW **ELEVATION:** 50 **MAP ID:** 56

NAME: CON EDISON
ADDRESS: 1000 FREEMAN ST
BRONX, NY 10459
BRONX
SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYP004725065

RCRA NonGen / NLR:
Date form received by agency: 02/04/2015
Facility name: CON EDISON
Facility address: 1000 FREEMAN ST
BRONX, NY 10459
EPA ID: NYP004725065
Mailing address: IRVING PL, 15TH FL NE
NEW YORK, NY 10003
Contact: THOMAS TEELING
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (212) 460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/04/2015
Site name: CON EDISON
Classification: Small Quantity Generator

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-LQG

EDR ID: 1017788009 **DIST/DIR:** 0.136 SSW **ELEVATION:** 38 **MAP ID:** K57

NAME: VERIZON

ADDRESS: WESTCHESTER AVE & HOME ST
BRONX, NY 10459
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYP000971580

RCRA-LQG:
Date form received by agency: 02/16/2016
Facility name: VERIZON
Facility address: WESTCHESTER AVE & HOME ST
BRONX, NY 10459
EPA ID: NYP000971580
Mailing address: BAY AVE
PATCHOGUE, NY 11772
Contact: THOMAS BOSSHARD
Contact address: BAY AVE
PATCHOGUE, NY 11772
Contact country: US
Contact telephone: (631) 569-3343
Contact email: THOMAS.BOSSHARD@VERIZON.COM
EPA Region: 02
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: VERIZON NEW YORK INC.
Owner/operator address: BAY AVE
PATCHOGUE, NY 11772
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/31/2015
Owner/Op end date: Not reported

Owner/operator name: VERIZON NEW YORK INC.
Owner/operator address: BAY AVE
PATCHOGUE, NY 11772
Owner/operator country: US

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

RCRA-LQG

EDR ID: 1017788009 **DIST/DIR:** 0.136 SSW **ELEVATION:** 38 **MAP ID:** K57

NAME: VERIZON

ADDRESS: WESTCHESTER AVE & HOME ST
BRONX, NY 10459
BRONX

SOURCE: US Environmental Protection Agency

Rev: 12/12/2016
ID/Status: NYP000971580

Owner/operator telephone: (631) 569-3343
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/31/2015
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 06/29/2015
Site name: VERIZON
Classification: Not a generator, verified

Date form received by agency: 03/30/2015
Site name: VERIZON
Classification: Small Quantity Generator

Violation Status: No violations found

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S117269710 **DIST/DIR:** 0.161 SW **ELEVATION:** 52 **MAP ID:** M58

NAME: ABALON PRECISION MFG. CORP.

ADDRESS: 1174 LONGFELLOW AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1405324 / 2014-09-23
ID/Status: 498747
ID/Status: 1405324

LTANKS:
Site ID: 498747
Spill Number/Closed Date: 1405324 / 2014-09-23
Spill Date: 2014-08-15
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: RMPIPER
Referred To: Not reported
Reported to Dept: 2014-08-15
CID: Not reported
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2014-08-15
Spill Record Last Update: 2014-09-23
Spiller Name: NORMAN ORENT
Spiller Company: ABALON PRECISION MFG. CORP.
Spiller Address: 1040 HOME STREET
Spiller City,St,Zip: BRONX, NY
Spiller County: 999
Spiller Contact: RAPID WASTE DISPOSAL
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 453710
DEC Memo: "Obligado - I called the Fred and left message to call back the DEC. From PBS, the facility is ABALON PRECISION MFG. CORP. PBS #2-605331 Contact: Norman Orent Abalon Precision MFG Corp 1040 Home Street Bronx, NY 10459 Norman Orent (718) 589-5682 abalonbx@aol.com I tried calling Mr. Orent as well but he was not available. I left the duty desk number with the secretary and emailed the TTF letter to Mr. Orent, cc to Ryan Piper. I received a call back from Mr. Orent. He said that they are planning to remove the tank and their environmental company will be in touch with the DEC.'"
Remarks: "2000 gal ust"

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S117269710 **DIST/DIR:** 0.161 SW **ELEVATION:** 52 **MAP ID:** M58

NAME: ABALON PRECISION MFG. CORP.

ADDRESS: 1174 LONGFELLOW AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1405324 / 2014-09-23
ID/Status: 498747
ID/Status: 1405324

Material:
Site ID: 498747
Operable Unit ID: 1248188
Operable Unit: 01
Material ID: 2249585
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S107782552 **DIST/DIR:** 0.170 SW **ELEVATION:** 45 **MAP ID:** 59

NAME: APARTMENT BUILDING

ADDRESS: 1275 WESTCHESTER AVENUE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8905394 / 2006-11-02
ID/Status: 129512
ID/Status: 8905394

LTANKS:
Site ID: 129512
Spill Number/Closed Date: 8905394 / 2006-11-02
Spill Date: 1989-08-31
Spill Cause: Tank Failure
Spill Source: Non Major Facility > 1,100 gal
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: rvketani
Referred To: Not reported
Reported to Dept: 1989-08-31
CID: Not reported
Water Affected: Not reported
Spill Notifier: DEC
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1989-09-06
Spill Record Last Update: 2007-01-08
Spiller Name: ASST. COMMISSIONER/DPM
Spiller Company: NYC/HPD/DPM
Spiller Address: 100 GOLD ST #6Z1
Spiller City,St,Zip: NEW YORK, NY 10038-
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 111634
DEC Memo: "7/27/05 - Transferred for closure review to M Johnson. 6/15/06 - Transferred for closure review to T Knizek. 9/7/06 - Austin - Assigned from Albany to Region 2 staff (Ketani) for review and closure - end 11/1/06 - Raphael Ketani. Site is an apartment building. There was a tank failure. Tanks-A-Lot was pumping out a mix of asbestos and oil from a pit. The site is block/lot 02758/0036. The site is owned by the Human Resources Administration, 250 Church Street, New York, 10013-3429. The agency involved was DPM/HPD, 100 Gold Street, #6Z1, New York, 10038. Assistant Commissioner of DPM was at (212) 863-7087. I called up the 7087 number, but the person answering the phone said that the building was not in the HPD

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S107782552 **DIST/DIR:** 0.170 SW **ELEVATION:** 45 **MAP ID:** 59

NAME: APARTMENT BUILDING

ADDRESS: 1275 WESTCHESTER AVENUE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8905394 / 2006-11-02
ID/Status: 129512
ID/Status: 8905394

database. I called up Tanks A Lot from the Bronx (718) 387-8300/927-0350. I spoke to a woman who answered the phone and explained that I needed information on this old spill. She said she wasn't sure there were any records, but she will take a look. I called up Mr. Edwin Lugo of DPM at Gold Street (212) 863-7312. I could only leave a voice mail. 11/2/06 - Raphael Ketani. I made an unannounced site visit. I went to the entrance to 1275 Westchester Avenue and was met by heavy security. I was told that the building is an HRA building and to wait outside. Women, some with babies and young children, were coming and going from the building. I was directed to a side entrance at 1138 Longfellow Avenue. Heavy security met me there. I met the super of HRA Adult Institutions, Mr. Hollis. He showed me the boiler room, the first electrical room, and the second electrical room. Each room was absolutely dry and clean with a solid concrete floor that did not have cracks and was painted. No vapors were detected with the PID in the boiler room and the first electrical room. However, the second electrical room had about 70 ppb of vapors. What these vapors were I could not tell as there were no odors. Also, this room had a side room or large niche where an oil tank might have once been kept. Mr. Hollis told me the building was converted to gas a long time ago. I brought this spill case to the attention of Randall Austin, Chief Spills Engineer Region 2. He told me that I can close this case. Based upon the lack of impirical or incidental evidence of a spill, the lack of direct evidence that a spill event took place, the lack of any personnel who were present at the time of the spill from the apartment building or the cleanup company, the lack of any papers documenting the spill, I am closing the case. 1/8/07 - Raphael Ketani. I received a call from Naim (na-eem) Brown of the CPC (Community Preservation Corporation). He asked whether the spill had been closed. I told him it had. He asked that I send him an NFA letter. I told him I would. The letter went out today to Mr. Brown at the CPC, 31-54 Albany Crescent, Bronx, 10463. "

Remarks: "TANKS-A-LOT IS PUMPING OUT OIL MIXED WITH ASBESTOS FROM 1275 WESTCHESTER AVENUE, PUMPING OIL FROM PIT."

Material:
Site ID: 129512
Operable Unit ID: 933026
Operable Unit: 01
Material ID: 445826
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S107782552 **DIST/DIR:** 0.170 SW **ELEVATION:** 45 **MAP ID:** 59

NAME: APARTMENT BUILDING
ADDRESS: 1275 WESTCHESTER AVENUE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8905394 / 2006-11-02
ID/Status: 129512
ID/Status: 8905394

Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S105999142 **DIST/DIR:** 0.172 SW **ELEVATION:** 52 **MAP ID:** M60

NAME: SPILL NUMBER 0302371
ADDRESS: 1150 LONGFELLOW AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0302371 / 2003-06-10
ID/Status: 126054
ID/Status: 0302371

LTANKS:
Site ID: 126054
Spill Number/Closed Date: 0302371 / 2003-06-10
Spill Date: 2003-06-05
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: JXZHAO
Referred To: Not reported
Reported to Dept: 2003-06-05
CID: 199
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2003-06-05
Spill Record Last Update: 2003-06-10
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: ***Update***, ZZ
Spiller County: 001
Spiller Contact: DANIEL SILVESTRO
Spiller Phone: (718) 893-4400
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 109012
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHAO Sangesland DDO Owner: Krish Ramnaraine 646-638-6051 Minor spill to driveway - no soil involved. Closed"
Remarks: "OWNER CALLED FOR 100 GAL TO BE DELIVERED AND PAID FOR 100 GAL BY CREDIT CARD - WHEN DRIVER MADE DELIVERY AFTER 47 GAL TANK WAS FILLED -- CREW ENROUTE FOR CLEAN UP "

Material:
Site ID: 126054
Operable Unit ID: 869208
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S105999142 **DIST/DIR:** 0.172 SW **ELEVATION:** 52 **MAP ID:** M60

NAME: SPILL NUMBER 0302371
ADDRESS: 1150 LONGFELLOW AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0302371 / 2003-06-10
ID/Status: 126054
ID/Status: 0302371

Material ID: 571418
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 3.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

DRYCLEANERS

EDR ID: 1007768732 **DIST/DIR:** 0.177 SE **ELEVATION:** 21 **MAP ID:** 61

NAME: COLGATE DRY CLEANERS
ADDRESS: 1170 COLGATE AVE
BRONX, NY 10472
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 10/27/2016
ID/Status: 2-6007-00787

DRYCLEANERS:
Facility ID: 2-6007-00787
Phone Number: (718)620-6616
Region: Not reported
Registration Effective Date: 8/17/2004
Inspection Date: 11AUG16
Install Date: 04/11
Drop Shop: Y
Shutdown: Not reported
Alternate Solvent: Not reported
Current Business: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S104950562 **DIST/DIR:** 0.201 East **ELEVATION:** 29 **MAP ID:** 62

NAME: SPILL NUMBER 0011458
ADDRESS: 1256 WHEELER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0011458 / 2004-05-03
ID/Status: 157591
ID/Status: 0011458

LTANKS:
Site ID: 157591
Spill Number/Closed Date: 0011458 / 2004-05-03
Spill Date: 2000-12-21
Spill Cause: Tank Overfill
Spill Source: Tank Truck
Spill Class: Known release that creates potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 2001-01-23
CID: 207
Water Affected: Not reported
Spill Notifier: Citizen
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2001-01-23
Spill Record Last Update: 2004-05-03
Spiller Name: Not reported
Spiller Company: EDGEWOOD OIL
Spiller Address: 106 EDGEWOOD AVE
Spiller City,St,Zip: YONKERS, NY 10704-
Spiller County: 001
Spiller Contact: CEDRIC FREEMAN
Spiller Phone: (718) 617-4945
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 133250
DEC Memo: ""
Remarks: "Caller states this spill went unreported by the oil co. and they did
nothing re: cleanup - product spilled outside residence and some
leaked inside - sand applied but no real cleanup to date"

Material:
Site ID: 157591
Operable Unit ID: 832851
Operable Unit: 01
Material ID: 541768
Material Code: 0001A

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S104950562 **DIST/DIR:** 0.201 East **ELEVATION:** 29 **MAP ID:** 62

NAME: SPILL NUMBER 0011458
ADDRESS: 1256 WHEELER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0011458 / 2004-05-03
ID/Status: 157591
ID/Status: 0011458

Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106000141 **DIST/DIR:** 0.208 North **ELEVATION:** 32 **MAP ID:** 63

NAME: LOT 15,TAXBLOCK 3014

ADDRESS: 1560 BOONE AVENUE
BRONX, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0307241 / 2005-07-19
ID/Status: 290018
ID/Status: 0307241

LTANKS:
Site ID: 290018
Spill Number/Closed Date: 0307241 / 2005-07-19
Spill Date: 2003-10-09
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: MXTIPPLE
Referred To: Not reported
Reported to Dept: 2003-10-09
CID: 322
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2003-10-09
Spill Record Last Update: 2005-07-19
Spiller Name: Not reported
Spiller Company: PRG PACKING
Spiller Address: 1560 BOONE AVE
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 234824
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE 10/9/03-Sangesland spoke with Anna at PRG Packing 718-328-0059. She says several companies have been in to bid on replacing the tank, but she says there is no leak. She says the building closes at 4PM and no one can see the tank later today. The building opens at 6AM. 10/10/03 Tipple visited site//tank replacement//remediation in progress 6/16/04 tipple sent letter requesting documentation and work to continue 3/23/05 Tipple sent letter requiring gw monitoring to continue 7/19/05 Report reviewed//NFA letter sent"

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106000141 **DIST/DIR:** 0.208 North **ELEVATION:** 32 **MAP ID:** 63

NAME: LOT 15,TAXBLOCK 3014

ADDRESS: 1560 BOONE AVENUE
BRONX, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0307241 / 2005-07-19
ID/Status: 290018
ID/Status: 0307241

Remarks: "10,000 GAL ABOVE GROUND TANK IS LEAKING - CALLER WAS CONTACTED FOR CLEAN UP - THEY HAVE NOT BEEN HIRED YET THOUGH"

Material:
Site ID: 290018
Operable Unit ID: 876000
Operable Unit: 01
Material ID: 500796
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S109829681 **DIST/DIR:** 0.209 SE **ELEVATION:** 20 **MAP ID:** 64

NAME: LANGSAN PROPERTY TTF
ADDRESS: 1148-50 COLGATE AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0905332 / 2009-09-02
ID/Status: 417594
ID/Status: 0905332

LTANKS:
Site ID: 417594
Spill Number/Closed Date: 0905332 / 2009-09-02
Spill Date: 2009-08-06
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: JMKRIMGO
Referred To: Not reported
Reported to Dept: 2009-08-07
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2009-08-07
Spill Record Last Update: 2009-09-02
Spiller Name: MARIA MCCALLEN
Spiller Company: LANGSAN PROPERTY
Spiller Address: 1148-50 COLEGATE AVE
Spiller City,St,Zip: BRONX, NY
Spiller County: 999
Spiller Contact: LIZETTE HERNANDEZ
Spiller Phone: (718) 378-3000
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 366743
DEC Memo: "***NOTE**** Tank at 1148 Colgate failed AND tank at 1150 Colgage failed**** 8/10/2009 TTF Letter sent to: Ms. Maria McCullough Zevrone Realty Corp 1601 Bronxdale Ave Suite 201 Bronx, NY 10462 8/12/2009 Rep from Langsan Properties called Sangesland and said ABC Tank has been hired to deal with the repairs/retest. They will forward the documentation to the DEC as soon as the work is done. 9/2/09. J.Krimgold reviewed the letter submitted by ABC Tank dated 08/31/09. Based on this letter two USTs 2000 gal each failed the t/test due to a leaky mainway gasket. The gasket was replaced along with a part on the vent pipe. After that both tanks passed the test. Case closed."
Remarks: "TANK TEST FAILURE ON 2 2000 GALLON ASTS. One tank in 1148 Colgate

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S109829681 **DIST/DIR:** 0.209 SE **ELEVATION:** 20 **MAP ID:** 64

NAME: LANGSAN PROPERTY TTF
ADDRESS: 1148-50 COLGATE AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0905332 / 2009-09-02
ID/Status: 417594
ID/Status: 0905332

Ave One tank in 1150 Colgate Ave"

Material:
Site ID: 417594
Operable Unit ID: 1173809
Operable Unit: 01
Material ID: 2165849
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106868988 **DIST/DIR:** 0.215 ENE **ELEVATION:** 41 **MAP ID:** 65

NAME: GARCIA RESIDENCE
ADDRESS: 1316 WHEELER AVENUE
NEW YORK, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0413444 / 2005-05-27
ID/Status: 342581
ID/Status: 0413444

LTANKS:
Site ID: 342581
Spill Number/Closed Date: 0413444 / 2005-05-27
Spill Date: 2005-03-26
Spill Cause: Tank Failure
Spill Source: Private Dwelling
Spill Class: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SFRAHMAN
Referred To: Not reported
Reported to Dept: 2005-03-26
CID: 72
Water Affected: Not reported
Spill Notifier: Citizen
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2005-03-28
Spill Record Last Update: 2005-05-27
Spiller Name: MRS. GARCIA
Spiller Company: GARCIA RESIDENCE
Spiller Address: 1316 WHEELER AVENUE
Spiller City,St,Zip: NEW YORK, NY 10472
Spiller County: 001
Spiller Contact: MRS. GARCIA
Spiller Phone: (718) 861-4158
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 288930
DEC Memo: "3/29/05-Vought-Spill contained before hitting concrete. No sewers or drains affected. Vought called Correa for status of tank repair and she called USA Tanks. Proposal sent to owner for tank replacement by USA Tank. Vought called Garcia and to leave message that for spill to be closed, copy of invoice must be received for AST replacement. Stuyvesant Fuel Oil will no longer make deliveries until AST is repaired. No answer of phone. Spill referred to DEC Rahman to send out letter requiring invoice of repair or replace. 03/29/05-SR// Sent a leaking tank repair letter. 04/18/05-SR//No reply received from the home owner. No body picks up the phone. USA tanks also unable to hold the owner. So, they sent a proposal for the repair work via mail. Need site inspection. 04/18/05-SR// Visited the site.Homwowner was

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106868988 **DIST/DIR:** 0.215 ENE **ELEVATION:** 41 **MAP ID:** 65

NAME: GARCIA RESIDENCE
ADDRESS: 1316 WHEELER AVENUE
NEW YORK, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0413444 / 2005-05-27
ID/Status: 342581
ID/Status: 0413444

not available and could not access the basement. 04/19/05-SR//After a series of attempt, homeowner Ms. Juan Garcia(718-861-4158) was found on the phone this evening. She informed about the possible repair work to be done by this week. "
Remarks: "Homeowner noticed fuel oil leaking under 275 gallon oil tank in basement. Bucket was placed to catch spill. USA Tanks on scene, and will handle. No oil spilled onto basement floor. 1/2 gallon oil is in bucket."

Material:
Site ID: 342581
Operable Unit ID: 1101305
Operable Unit: 01
Material ID: 581453
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

DRYCLEANERS

EDR ID: 1009719507 **DIST/DIR:** 0.227 ESE **ELEVATION:** 27 **MAP ID:** N66

NAME: ACE CLEANERS
ADDRESS: 1496A WESTCHESTER AVE
BRONX, NY 10472
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 10/27/2016
ID/Status: 2-6007-00804

DRYCLEANERS:
Facility ID: 2-6007-00804
Phone Number: 718-328-1469
Region: Not reported
Registration Effective Date: 11/10/2006
Inspection Date: 07MAY23
Install Date: 06
Drop Shop: Not reported
Shutdown: Not reported
Alternate Solvent: Not reported
Current Business: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

DRYCLEANERS

EDR ID: S110245831 **DIST/DIR:** 0.230 ESE **ELEVATION:** 28 **MAP ID:** N67

NAME: ACE CLEANERS (OLD ADDRESS)
ADDRESS: 1500 WESTCHESTER AVE.
BRONX, NY 10472
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 10/27/2016
ID/Status: 2-6007-00282

DRYCLEANERS:
Facility ID: 2-6007-00282
Phone Number: 718-328-1469
Region: Not reported
Registration Effective Date: 7/16/2003 13:27:14:86
Inspection Date: 06OCT5
Install Date: 98/03
Drop Shop: Not reported
Shutdown: Y
Alternate Solvent: Not reported
Current Business: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

SWF/LF

EDR ID: S108146132 **DIST/DIR:** 0.235 SSE **ELEVATION:** 12 **MAP ID:** 68

NAME: SPECIALTY MOTOR CARS INC **Rev:** 01/04/2017

ADDRESS: 1125 BRONX RIVER AVE
BRONX, NY 10472
BRONX

SOURCE: NY Department of Environmental Conservation

SWF/LF:
Flag: INACTIVE
Region Code: 2
Phone Number: 7188933333
Owner Name: Specialty Motor Cars Inc
Owner Type: Private
Owner Address: 1125 Bronx River Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10472
Owner Email: Not reported
Owner Phone: 7188933333
Contact Name: Kinstantino Pashos
Contact Address: 1125 Bronx River Avenue
Contact Addr2: Not reported
Contact City,St,Zip: Bronx, NY 10472
Contact Email: Not reported
Contact Phone: 7188933333
Activity Desc: Vehicle Dismantling Facility
Activity Number: [7069206]
Active: No
East Coordinate: 594160
North Coordinate: 4520064
Accuracy Code: Not reported
Regulatory Status: Not reported
Waste Type: Not reported
Authorization #: Not reported
Authorization Date: Not reported
Expiration Date: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S102662647 **DIST/DIR:** 0.267 East **ELEVATION:** 42 **MAP ID:** 69

NAME: 1210 ELDER AVENUE
ADDRESS: 1210 ELDER AVENUE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9607847 / 1996-09-23
ID/Status: 325743
ID/Status: 9607847

LTANKS:
Site ID: 325743
Spill Number/Closed Date: 9607847 / 1996-09-23
Spill Date: 1996-09-23
Spill Cause: Tank Overfill
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SMMARTIN
Referred To: Not reported
Reported to Dept: 1996-09-23
CID: 205
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1996-09-23
Spill Record Last Update: 1996-10-18
Spiller Name: CALER
Spiller Company: MYSTIC TRANSPORTATION
Spiller Address: 1901 STEINWAY ST
Spiller City,St,Zip: ASTORIA, NY 11105-
Spiller County: 001
Spiller Contact: DOMINGO AMADOR
Spiller Phone: (718) 378-0859
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 262397
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MARTINKAT GAUGE ON TANK FAULTY, TANK OVERFILLED THEN WENT ON SIDEWALK. CALLED DOMINGO - GAVE SON'S # (516) 352-8574 - DOMINGO SAID MYSTIC WAS SENDING SOMEONE TO CLEAN - CLEANING UP NOW. "
Remarks: "GUAGE ON TANK FAULTY, TANK OVERFILLED."

Material:
Site ID: 325743
Operable Unit ID: 1035954
Operable Unit: 01
Material ID: 347104

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S102662647 **DIST/DIR:** 0.267 East **ELEVATION:** 42 **MAP ID:** 69

NAME: 1210 ELDER AVENUE

ADDRESS: 1210 ELDER AVENUE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9607847 / 1996-09-23
ID/Status: 325743
ID/Status: 9607847

Material Code: 0003A
Material Name: #6 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 30.00
Units: Gallons
Recovered: 30.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S107523158 **DIST/DIR:** 0.275 SW **ELEVATION:** 65 **MAP ID:** 70

NAME: APARTMENT BUILDING
ADDRESS: 1134 WEST FARMS RD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0510769 / 2006-07-20
ID/Status: 356806
ID/Status: 0510769

LTANKS:
Site ID: 356806
Spill Number/Closed Date: 0510769 / 2006-07-20
Spill Date: 2005-12-14
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SFRAHMAN
Referred To: Not reported
Reported to Dept: 2005-12-14
CID: 41
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2005-12-15
Spill Record Last Update: 2006-07-20
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller County: 999
Spiller Contact: RUDY
Spiller Phone: (917) 440-1227
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 306863
DEC Memo: "12/15/05-Sharif//Left a message for Rudy,(917)440-1227. 12/16/05-Sharif// Rudy got back to me saying they cleaned up the spill and took photographs of the cleaned site. He will forward the pictures to DEC. 03/21/06 Sharif Rahman- Left another messege for Rudy today. 04/06/06 Sharif Rahman- Left another messege for Rudy today"
Remarks: "storage tank overfill - 5 gallons on sidewalk - 15 gallons in tank room - spill cleaned up"

Material:
Site ID: 356806
Operable Unit ID: 1114101

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S107523158 **DIST/DIR:** 0.275 SW **ELEVATION:** 65 **MAP ID:** 70

NAME: APARTMENT BUILDING
ADDRESS: 1134 WEST FARMS RD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0510769 / 2006-07-20
ID/Status: 356806
ID/Status: 0510769

Operable Unit: 01
Material ID: 2104182
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 20.00
Units: Gallons
Recovered: 20.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S102671886 **DIST/DIR:** 0.285 SSW **ELEVATION:** 39 **MAP ID:** 71

NAME: 1151 E 165TH ST

ADDRESS: 1151 E 165TH ST
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9201510 / 2006-10-31
ID/Status: 100429
ID/Status: 9201510

LTANKS:
Site ID: 100429
Spill Number/Closed Date: 9201510 / 2006-10-31
Spill Date: 1992-05-05
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: rvketani
Referred To: Not reported
Reported to Dept: 1992-05-06
CID: Not reported
Water Affected: Not reported
Spill Notifier: Fire Department
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1992-05-11
Spill Record Last Update: 2006-10-31
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: ***Update***, ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 89168
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was M
TIBBE Transferred for closure review to M Johnson 7/29/05. 6/15/06
Transferred for closure review to T Knizek. 9/7/06 - Austin -
Assigned from Albany to Region 2 staff (Ketani) for review and
closure - end 10/31/06 - Raphael Ketani. The last contact was LT.
Broderick of the NYC Fire Department. The spill was an overfill and
the tank opening was repaired. Less than 1 gallon was reported lost.
Based upon the nature of the loss, the small size of the spill and
the fact that 14 years have passed since the incident, I am closing
the case administratively. "
Remarks: "WILL REPAIR OPENING ON TOP TO PREVENT FUTURE OVERFLOW."

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S102671886 **DIST/DIR:** 0.285 SSW **ELEVATION:** 39 **MAP ID:** 71

NAME: 1151 E 165TH ST

ADDRESS: 1151 E 165TH ST
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9201510 / 2006-10-31
ID/Status: 100429
ID/Status: 9201510

Material:
Site ID: 100429
Operable Unit ID: 968799
Operable Unit: 01
Material ID: 412820
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100145497 **DIST/DIR:** 0.286 SSE **ELEVATION:** 14 **MAP ID:** 72

NAME: CLOSED-LACKOF RECENT INFO
ADDRESS: 1095 CLOSE AVENUE
NEW YORK CITY, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8903579 / 2003-03-04
ID/Status: 175288
ID/Status: 8903579

LTANKS:
Site ID: 175288
Spill Number/Closed Date: 8903579 / 2003-03-04
Spill Date: 1989-07-10
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: ADMIN. CLOSED
Referred To: Not reported
Reported to Dept: 1989-07-10
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1989-07-11
Spill Record Last Update: 2003-03-04
Spiller Name: Not reported
Spiller Company: WESTFARMS EXPRESS
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 147369
DEC Memo: ""
Remarks: "(4) INDIVIDUAL SYSTEMS TESTS FAILED AIR PRESSURE TEST, 1ST TEST WAS FOR (2)550 GALLON, 2ND FOR (1)550 GALLON, 3RD FOR (1)550 GALLON & THE 4TH TEST FOR A 1080 GALLON TANK. CLOSED DUE TO LACK OF ANY RECENT INFO - DOES NOT MEET ANY CLEANUP REQUIREMENTS. "

Material:
Site ID: 175288
Operable Unit ID: 931079
Operable Unit: 01
Material ID: 567870

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100145497 **DIST/DIR:** 0.286 SSE **ELEVATION:** 14 **MAP ID:** 72

NAME: CLOSED-LACKOF RECENT INFO
ADDRESS: 1095 CLOSE AVENUE
NEW YORK CITY, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8903579 / 2003-03-04
ID/Status: 175288
ID/Status: 8903579

Material Code: 0008
Material Name: diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 175288
Spill Tank Test: 1535696
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Unknown

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S103479812 **DIST/DIR:** 0.296 ESE **ELEVATION:** 41 **MAP ID:** 73

NAME: BASEMENT
ADDRESS: 1535 WESTCHESTER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9808568 / 1998-10-26
ID/Status: 312997
ID/Status: 9808568

LTANKS:
Site ID: 312997
Spill Number/Closed Date: 9808568 / 1998-10-26
Spill Date: 1998-10-09
Spill Cause: Tank Overfill
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: MMMULQUE
Referred To: Not reported
Reported to Dept: 1998-10-09
CID: 371
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1998-10-09
Spill Record Last Update: 1998-10-26
Spiller Name: JIM CAREY
Spiller Company: CASTLE OIL CORPORATION
Spiller Address: 290 LOCUST AVENUE
Spiller City,St,Zip: BRONX, NY 10454-
Spiller County: 001
Spiller Contact: MR SEGAL
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 252357
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MULQUEEN "
Remarks: "TANK WAS OVERFILLED, BUT MAY HAVE BEEN CAUSED BY EQUIP FAILURE. CLEAN UP IS COMPLETE."

Material:
Site ID: 312997
Operable Unit ID: 1065981
Operable Unit: 01
Material ID: 316066
Material Code: 0001A

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S103479812 **DIST/DIR:** 0.296 ESE **ELEVATION:** 41 **MAP ID:** 73

NAME: BASEMENT

ADDRESS: 1535 WESTCHESTER AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9808568 / 1998-10-26
ID/Status: 312997
ID/Status: 9808568

Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 30.00
Units: Gallons
Recovered: 30.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U003644487 **DIST/DIR:** 0.300 SE **ELEVATION:** 17 **MAP ID:** 74

NAME: 1471-3 WATSON AVENUE (BRONXDALE HOUSES)
ADDRESS: 1471-3 WATSON AVENUE
BRONX, NY 10473
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9006953 / 1998-01-12
ID/Status: 71469
ID/Status: 9006953

LTANKS:
Site ID: 71469
Spill Number/Closed Date: 9006953 / 1998-01-12
Spill Date: 1990-09-25
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SACCACIO
Referred To: Not reported
Reported to Dept: 1990-09-25
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1990-10-03
Spill Record Last Update: 2005-12-08
Spiller Name: Not reported
Spiller Company: NYCHA
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 189499
DEC Memo: ""
Remarks: "10K TANK FAILED HORNER EZY CHECK WITH A GROSS LEAK IN MANWAY, WILL EXCAVATE, ISOLATE & RETEST."

Material:
Site ID: 71469
Operable Unit ID: 944457
Operable Unit: 01
Material ID: 434386
Material Code: 0001A
Material Name: #2 fuel oil

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U003644487 **DIST/DIR:** 0.300 SE **ELEVATION:** 17 **MAP ID:** 74

NAME: 1471-3 WATSON AVENUE (BRONXDALE HOUSES)
ADDRESS: 1471-3 WATSON AVENUE
BRONX, NY 10473
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9006953 / 1998-01-12
ID/Status: 71469
ID/Status: 9006953

Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 71469
Spill Tank Test: 1537593
Tank Number: 001
Tank Size: 0
Test Method: 00
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Unknown

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106385805 **DIST/DIR:** 0.303 NE **ELEVATION:** 43 **MAP ID:** 75

NAME: TANK LEAK IN REAR YARD

ADDRESS: 1347 BOYNTON AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0400237 / 2006-01-12
ID/Status: 238140
ID/Status: 0400237

LTANKS:
Site ID: 238140
Spill Number/Closed Date: 0400237 / 2006-01-12
Spill Date: 2004-04-08
Spill Cause: Tank Failure
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: JMZALEWS
Referred To: Not reported
Reported to Dept: 2004-04-08
CID: 444
Water Affected: Not reported
Spill Notifier: Affected Persons
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2004-04-08
Spill Record Last Update: 2006-03-20
Spiller Name: CHAKRABORTY HIRONMOY
Spiller Company: PRIVATE REIDENCE
Spiller Address: 1347 BOYNTON AVE
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 196147
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEMEO 4/8/2004 Sangesland spoke to Mr. Ruben Carbrear, owner of 1349 Boynton Ave, Bronx. He says oil is coming through the ground from a leak on his neighbor's property at 1347 Boynton Ave. House at 1347 Boynton is in foreclosure and has had alot of Emergency Repair work done on it in the last 2 years by the city HPD. This house has an outdoor #2 oil tank standing in the back of the house. It looks like a new copper line going from the tank into the basement. The old copper line is discarded nearby. The area under this oil tank is saturated with oil and this oil has now migrated over the property line into the yard of 1349 Boynton. Access to the yard of 1349

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106385805 **DIST/DIR:** 0.303 NE **ELEVATION:** 43 **MAP ID:** 75

NAME: TANK LEAK IN REAR YARD

ADDRESS: 1347 BOYNTON AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0400237 / 2006-01-12
ID/Status: 238140
ID/Status: 0400237

Boynton is available by ringing the bell at #2B of 1349. Sangesland spoke to Deputy Inspector Harry Brown (718-579-6772) at the NYC- HPD. Mr. Brown was told that it appears that HPD contractors have done work on this site over the last several months which seems to have caused the spill problem. This area needs to be dug out, cleaned and then refilled and tank set up again. Mr. Brown said he would send an inspector to the site and if a spill was found, a contractor would be hired to conduct the cleanup. Sangesland requested that HPD contact the DEC to arrange a joint visit to the building to discuss the clean up. 4/13/2004 Sangesland spoke with HPD Harry Brown. He said an inspector did go to the site and did see an oil leak problem. The case was referred to the HPD Emergency Repairs dept. Contact is Persey Young 212-863-8747. A message was left at this number for Mr. Young. 4/23/2004 Sangesland spoke with Persey Young of HPD. He said a contract was awarded to clean up the site at 1347 Boynton. He didn't know why this work has not yet started. Sangesland asked Mr. Young to contact Ruben Carberear (owner of 1349) to tell him what work would be done and when it would be done. DEC needs to make contact with the HPD hired contractor to confirm that proper endpoint samples will be taken and a complete closure report will be submitted. 09/09/2005 - Changed DEC lead from Demeo to Zalewski. (Zalewski) 11/3/2005 - Spoke with Persey Young (HPD). He said that his records show that they inspected the site on May 12, 2004 and the spill was taken care of by the property owner. They closed the case on May 12, 2004. Placed a phone call to the original caller. He was NA. (Zalewski) 11/4/2005 - Placed another phone call to the original caller. He was NA. I was given his cellphone number. Tried cellphone. No answer. (Zalewski) 1/12/2006 - Placed a phone call to the original caller's cellphone. He confirmed that the new owner remediated the spill. He was satisfied with the cleanup. Based on the available information, no further action. (Zalewski) "

Remarks: "CALLER SAYS HIS NIEGHBORS OIL LINE IS BROKEN AND IS LEAKING ON HIS PROPERTY< WOULD LIKE SOMEONE TO CHECK OUT SOAKED IN SOIL: "

Material:
Site ID: 238140
Operable Unit ID: 882472
Operable Unit: 01
Material ID: 495024
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106385805 **DIST/DIR:** 0.303 NE **ELEVATION:** 43 **MAP ID:** 75

NAME: TANK LEAK IN REAR YARD

ADDRESS: 1347 BOYNTON AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0400237 / 2006-01-12
ID/Status: 238140
ID/Status: 0400237

Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S108983042 **DIST/DIR:** 0.304 SSW **ELEVATION:** 49 **MAP ID:** 76

NAME: APRT
ADDRESS: 1075 LONGFELLOW AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0711323 / 2008-10-31
ID/Status: 392784
ID/Status: 0711323

LTANKS:
Site ID: 392784
Spill Number/Closed Date: 0711323 / 2008-10-31
Spill Date: 2008-01-28
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: vszhune
Referred To: Not reported
Reported to Dept: 2008-01-28
CID: 444
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: Not reported
Remediation Phase: 0
Date Entered In Computer: 2008-01-28
Spill Record Last Update: 2008-10-31
Spiller Name: JERRY SIBBIO
Spiller Company: APRT
Spiller Address: 1075 LONGFELLOW AVE
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: JERRY SIBBIO
Spiller Phone: (718) 981-5710
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 342375
DEC Memo: "Sangesland spoke to Jerry Sibbio - Site needs a PBS inspection. 10/31/08: Received five pages report documents dated Sept. 22, 2008 from PRC Management Company LLC. The report documents repair work carried out at the facilty related to the spill case. See eDocs for details. (MA) "
Remarks: "VISIUAL LEAKS AND SUNCTION"

Material:
Site ID: 392784
Operable Unit ID: 1149771
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S108983042 **DIST/DIR:** 0.304 SSW **ELEVATION:** 49 **MAP ID:** 76

NAME: APRT
ADDRESS: 1075 LONGFELLOW AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0711323 / 2008-10-31
ID/Status: 392784
ID/Status: 0711323

Material ID: 2140323
Material Code: 0002A
Material Name: #4 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 392784
Spill Tank Test: 2384555
Tank Number: Not reported
Tank Size: 5000
Test Method: 03
Leak Rate: .00
Gross Fail: Not reported
Modified By: Watchdog
Last Modified: Not reported
Test Method: Horner EZ Check I or II

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106011034 **DIST/DIR:** 0.320 ESE **ELEVATION:** 41 **MAP ID:** 77

NAME: CHASE MANHATTEN BANK
ADDRESS: 1536 WESTCHESTER AVENUE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0402409 / 2007-07-19
ID/Status: 194710
ID/Status: 0402409

LTANKS:
Site ID: 194710
Spill Number/Closed Date: 0402409 / 2007-07-19
Spill Date: 2004-06-04
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. No DEC Response. No corrective action required.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: HRPATEL
Referred To: Not reported
Reported to Dept: 2004-06-04
CID: 444
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2004-06-04
Spill Record Last Update: 2007-07-19
Spiller Name: PAUL DYRLAND
Spiller Company: CHASE BANK
Spiller Address: 1536 WESTCHESTER AVE
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: PAUL DYRLAND
Spiller Phone: (718) 441-6800
Spiller Extention: 150
DEC Region: 2
DER Facility ID: 162237
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIPPLE TTF ltr 12/19/05 Feroze. Spill is transferred from Ketani to Feroze. 02/23/06. Feroze talked with Mr.Paul 718-441-6800 of New York heating. They did the tank tightness test at this site. He will submit me the report soon. It is 1500 gallons capacity tank but it is not registered. 03/15/06. Spill is transferred from Feroze to Kumar Patel. 03/21/06-Hiralkumar Patel. Spoke with John at Protest and he will call back with information. 03/23/06-Hiralkumar Patel. REceived call from John from Protest. as per him, they did tank test only. the dry portion was leaking. John is not sure about isolation test. they haven't did any further work on site. Spoke with Mr. Dryland (FAX:

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106011034 **DIST/DIR:** 0.320 ESE **ELEVATION:** 41 **MAP ID:** 77

NAME: CHASE MANHATTEN BANK
ADDRESS: 1536 WESTCHESTER AVENUE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0402409 / 2007-07-19
ID/Status: 194710
ID/Status: 0402409

718-849-2905) at New York Heating. as per him this tank on site is UST of 1500 gal capacity. tank has two fill lines, one is remote one and this remote fill port was not in use for last 10 years. old fill line is plugged with cement at street level, but never capped at tank end. Paul is going on site to cap the old fill line at tank end. when Protest did tank test in 06, 2004 they found test failed, but Pual thikns that was because of old fill line. ONce Paul done with caping old fill line, he will contact ProTest and ProTest will do tank test again. if tank fails, they will do isolation test. i have asked Paul to call me back once they decide with tank test date. this property has another tank on site also. and property also using gas heating system. Paul knows about registration of those tank. Paul gave me person's name and number who is handling this site. Tom Oteranto Chase Manhattan Bank (347) 386-4670 Spoke with Tom and he told me that Paul Deri is handling the tank registration and testing thing at bank. as per Tom property has only one tank. due to signal problem, line disconnected before i get Paul Deri's number. from reverse phone directory, phone number for site address is (718) 935-9935. dialed general number and got Paul Deri on phone. Correspondence address: Paul Deri Chase Manhattan Bank Area Branches Boynton Avenue 1536 Westchester Ave Bronx, NY 10472 Ph. (516) 574-6276 (917) 440-6327 FAX (516) 574-6262 Alternate Address: Paul Deri 1985 Marcus Avenue New Hyde Park, NY 11042 as per Mr. Deri they have only one tank on location and they are already in process of registering it. Paul Dryland will excavate soil and will remove old fill line from location. TTF sent out to Mr. Deri requesting tank test and tank registration. 04/24/06-Hiralkumar Patel. REceived call from Charles Powers (Off.: 516-932-3228 Ext. 101, Cell: 516-448-5004). as per Mr. Powers, Mr. Deri is done with registration of tanks. Mr. powers knows that they have disconnected fill line and filled with cement. the tank top is open. asked Mr. Power to do isolation test of tank only to find out integrity of tank before abondoning it. he will email me with his plan of work. Received email from Mr. Powers. 06/05/06-Hiralkumar Patel. Left message for Mr. Powers. 06/06/06-Hiralkumar Patel. REceived call from Mr. Powers. they will do isolation test tomorrow. he will call back as soon as he gets test results. 06/09/06-Hiralkumar Patel. Received message from Mr. Powers. Left message for Mr. Powers. 06/16/06-Hiralkumar Patel. Received message from Mr. Powers. Spoke to Mr. Powers. as the tank is so close to building and have only single access is sidewalk, it is so hard to remove tank from location. asked Mr. Powers to take soil samples around the tank atleast 2 bt below bottom of tank and also soil samples through bottom of tank. he will email me PID readings of this soil samples and once he gets lab results, will call/email me. 08/14/06-Hiralkumar Patel. spoke with Mr. Powers. he got approval for

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106011034 **DIST/DIR:** 0.320 ESE **ELEVATION:** 41 **MAP ID:** 77

NAME: CHASE MANHATTEN BANK
ADDRESS: 1536 WESTCHESTER AVENUE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0402409 / 2007-07-19
ID/Status: 194710
ID/Status: 0402409

geoprobe and will call once he gets soil results. 11/22/06-Hiralkumar Patel. left message for Mr. Powers. 11/24/06-Hiralkumar Patel. spoke with Mr. Powers. they got lab analyticals and as per him, samples came back clean. asked him to send closure report (with scaled site plan including sampling locations and full diagram of tank system). 11/29/06-Hiralkumar Patel. received Phase-II Investigation report from Mr. Powers. abstract: - groundwater is assumed to flow in a south/southeastern direction towards the Flushing Bay - four soil samples taken around 2000 gal underground tank (one from each side) - no groundwater encountered in any of the borings - CNS attempted to punch through the UST to collect soil samples beneath the tank, however, this boring was unattainable due to damaged equipment caused from attempting the said boring - samples were collected from these borings at depths ranging between six to eight ft bgs. - only compound found over TAGM limit is total Xylene (S-01A: 2.81 ppm and S-04A: 4.5 ppm, limit: 1.2 ppm) - found 17.3 ppm PID reading in S-01A at depth of 8-9 ft. spoke with Mr. Powers. explained him that as site has about 4 times high Xylene, it requires groundwater testing as they can't remove tank due to site restriction. Mr. Powers asked to send this in writing. sent out letter requiring groundwater analysis to Mr. Deri. letter faxed to Mr. Deri and to Mr. Powers (cpowers@cnsmanagement.net). 12/28/06-Hiralkumar Patel. received call from Mr. Powers. he tried to get groundwater sample and hit bedrock at depth 15 ft. he will bring larger drill and will try again. 04/18/07-Hiralkumar Patel. left message for Mr. Powers. spoke with Mr. Deri at bank. he will call Mr. Powers and ask him to call DEC. 05/07/07-Hiralkumar Patel. spoke with Mr. Powers. they can't bring rig for well installation as tank is located at side of building with small access. discuss with DEC Vought. he suggest if they find clean soil between previous depth (8 ft) and bedrock, then contamination could be considered contained. spoke with Mr. Powers again and asked him for 'clean' soil sample between boring depth and bedrock. 07/19/07-Hiralkumar Patel. received phase II report from Mr. Powers. abstract: - installed four borings at site (SB-01B to SB-04B) and collected composite samples from three borings between the depths of 8 to 12 ft bg (SB-01B, SB-02B & SB-04B) - found some VOCs and SVOCs in sample SB-02B, but under limit from available reports, found that contamination is limited to depth of 8 ft. due to tank location close to building wall, not possible to remove any contamination. no contamination found under 8 ft depth. based on available information, case closed. sent NFA to Mr. Deri. letter emailed to Mr. Powers."

Remarks: "KNOW THAT THERE IS A VENT PROBLEM: "

Material:

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S106011034 **DIST/DIR:** 0.320 ESE **ELEVATION:** 41 **MAP ID:** 77

NAME: CHASE MANHATTEN BANK
ADDRESS: 1536 WESTCHESTER AVENUE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0402409 / 2007-07-19
ID/Status: 194710
ID/Status: 0402409

Site ID: 194710
Operable Unit ID: 884094
Operable Unit: 01
Material ID: 552288
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 194710
Spill Tank Test: 1529334
Tank Number: 1
Tank Size: 1500
Test Method: 03
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Horner EZ Check I or II

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100144747 **DIST/DIR:** 0.337 SW **ELEVATION:** 64 **MAP ID:** 78

NAME: CLOSED-LACKOF RECENT INFO
ADDRESS: 985 EAST 167TH STREET
NEW YORK CITY, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8704609 / 2003-03-03
ID/Status: 287785
ID/Status: 8704609

LTANKS:
Site ID: 287785
Spill Number/Closed Date: 8704609 / 2003-03-03
Spill Date: 1987-09-02
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: ADMIN. CLOSED
Referred To: Not reported
Reported to Dept: 1987-09-02
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1987-09-03
Spill Record Last Update: 2003-03-19
Spiller Name: Not reported
Spiller Company: ARCHDIOCESE ST. JOHN
Spiller Address: 985 E.167TH STREET
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 233103
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ADMIN.CLOSED / / : Update 9/22/87:2K Tank Of #2 F.O. Failed Test At 12:20 Hrs, Leak Rate Of -.3493 Gph.3/3/2003-Austin- Closed Due To The Nature / Extent Of The Spill Report."
Remarks: "EXCAVATING, ISOLATING, AND RE-TESTING. CLOSED DUE TO LACK OF ANY RECENT INFO-DOES NOT MEET ANY CLEAN UP REQUIREMENTS."

Material:
Site ID: 287785
Operable Unit ID: 911096
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100144747 **DIST/DIR:** 0.337 SW **ELEVATION:** 64 **MAP ID:** 78

NAME: CLOSED-LACKOF RECENT INFO
ADDRESS: 985 EAST 167TH STREET
NEW YORK CITY, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8704609 / 2003-03-03
ID/Status: 287785
ID/Status: 8704609

Material ID: 467235
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 287785
Spill Tank Test: 1531547
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Unknown

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S104620992 **DIST/DIR:** 0.339 East **ELEVATION:** 43 **MAP ID:** 79

NAME: CON EDISON
ADDRESS: 1213 WARD AV
BRONX, NY 10472
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0000461 / 2000-09-19
ID/Status: 171392
ID/Status: 0000461

LTANKS:
Site ID: 171392
Spill Number/Closed Date: 0000461 / 2000-09-19
Spill Date: 2000-04-11
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: JMKRIMGO
Referred To: Not reported
Reported to Dept: 2000-04-11
CID: 281
Water Affected: Not reported
Spill Notifier: Local Agency
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2000-04-11
Spill Record Last Update: 2000-09-19
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller County: 999
Spiller Contact: NYC FIRE DEPT DISPT #561
Spiller Phone: (718) 430-0251
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 144236
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was KRIMGOLD CLEANED UP BY RP."
Remarks: "DEP RECEIVED REPORT OF ABOVE MATERIAL BEING SPILLED AT ABOVE LOCATION. NYC FIRE DEPT ON SCENE AT TIME OF CALL. DEP REQUESTING DEC REP TO CONTACT NYC FIRE AT ABOVE PHONE NUMBER."

Material:
Site ID: 171392
Operable Unit ID: 822142
Operable Unit: 01
Material ID: 555823

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S104620992 **DIST/DIR:** 0.339 East **ELEVATION:** 43 **MAP ID:** 79

NAME: CON EDISON
ADDRESS: 1213 WARD AV
BRONX, NY 10472
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0000461 / 2000-09-19
ID/Status: 171392
ID/Status: 0000461

Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 200.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100146801 **DIST/DIR:** 0.346 SSE **ELEVATION:** 18 **MAP ID:** 80

NAME: 1050 BRONX RIVER AVE/BX
ADDRESS: 1050 BRONX RIVER AVENUE
NEW YORK CITY, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9011819 / 1991-02-11
ID/Status: 230614
ID/Status: 9011819

LTANKS:
Site ID: 230614
Spill Number/Closed Date: 9011819 / 1991-02-11
Spill Date: 1990-11-01
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Not reported
Cleanup Ceased: 1991-02-11
Cleanup Meets Standard: True
SWIS: 0301
Investigator: KSTANG
Referred To: Not reported
Reported to Dept: 1991-02-11
CID: Not reported
Water Affected: Not reported
Spill Notifier: Citizen
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1991-02-13
Spill Record Last Update: 2004-09-30
Spiller Name: Not reported
Spiller Company: MONTEBELLO FUEL OIL
Spiller Address: 1050 BRONX RIVER AVENUE
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 190049
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG "
Remarks: "(2) 8K TANK TRUCKS LEAKING,DEC INVESTIGATED SITE,REPORTED NO OBVIOUS SIGN OF SUBSTANTIAL PETROLEUM CONTAMINATION WHICH WAS FIRST REPORTED, HOUSEKEEPING PROBLEMS."

Material:
Site ID: 230614
Operable Unit ID: 951736
Operable Unit: 01
Material ID: 428338
Material Code: 0001A

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100146801 **DIST/DIR:** 0.346 SSE **ELEVATION:** 18 **MAP ID:** 80

NAME: 1050 BRONX RIVER AVE/BX

ADDRESS: 1050 BRONX RIVER AVENUE
NEW YORK CITY, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9011819 / 1991-02-11
ID/Status: 230614
ID/Status: 9011819

Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Not reported
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000418216 **DIST/DIR:** 0.366 North **ELEVATION:** 80 **MAP ID:** 81

NAME: BRYANT AVENUE EAST 174TH ST (MURPHY PRIVATE SEBCO)
Rev: 02/06/2017
ID/Status: 9811582 / 2008-05-20
ID/Status: 161817
ID/Status: 9811582

ADDRESS: 1705 BRYANT AVENUE
BRONX, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

LTANKS:
Site ID: 161817
Spill Number/Closed Date: 9811582 / 2008-05-20
Spill Date: 1998-12-15
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: jkkann
Referred To: Not reported
Reported to Dept: 1998-12-15
CID: 252
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1998-12-15
Spill Record Last Update: 2008-05-20
Spiller Name: Not reported
Spiller Company: NYC HOUSING AUTHORITY
Spiller Address: 250 BROADWAY
Spiller City,St,Zip: NEW YORK, NY 10007-
Spiller County: 001
Spiller Contact: FRANK OCELLO
Spiller Phone: (212) 306-3229
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 136607
DEC Memo: "12/02/05: This spill transferred from J.Kolleeny to S.Kraszewski.
02/03/06: This spill transferred from S.Kraszewski to Q.Abidi.
04/04/06: This spill transferred from Q. Abidi to Koon Tang.
05/20/08: J.Kann - NYCHA submitted tank tightness testing report.
Tank passed after union on vent line replaced. Closure discussed with
Vadim."
Remarks: "WILL ISOLATE AND RE-TEST"

Material:
Site ID: 161817
Operable Unit ID: 1072464

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000418216 **DIST/DIR:** 0.366 North **ELEVATION:** 80 **MAP ID:** 81

NAME: BRYANT AVENUE EAST 174TH ST (MURPHY PRIVATE SEBCO)
Rev: 02/06/2017
ID/Status: 9811582 / 2008-05-20
ID/Status: 161817
ID/Status: 9811582

ADDRESS: 1705 BRYANT AVENUE
BRONX, NY 10460
BRONX

SOURCE: NY Department of Environmental Conservation

Operable Unit: 01
Material ID: 311871
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 161817
Spill Tank Test: 1546639
Tank Number: 1
Tank Size: 7500
Test Method: 03
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Horner EZ Check I or II

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S102672151 **DIST/DIR:** 0.377 SE **ELEVATION:** 23 **MAP ID:** 82

NAME: 1080 WHEELER AVE
ADDRESS: 1080 WHEELER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9300539 / 2002-12-20
ID/Status: 101278
ID/Status: 9300539

LTANKS:
Site ID: 101278
Spill Number/Closed Date: 9300539 / 2002-12-20
Spill Date: 1993-04-12
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: True
SWIS: 0301
Investigator: SJMILLER
Referred To: Not reported
Reported to Dept: 1993-04-12
CID: Not reported
Water Affected: Not reported
Spill Notifier: Local Agency
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1993-04-13
Spill Record Last Update: 2002-12-20
Spiller Name: Not reported
Spiller Company: UNKNOWM
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 89752
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was MILLER SEE SPILL REPORT NO. 9300546 - DEC RESPONSE - CLOSED."
Remarks: "DEP ON SITE STATING INVESTIGATION"

Material:
Site ID: 101278
Operable Unit ID: 982395
Operable Unit: 01
Material ID: 401291
Material Code: 0002A
Material Name: #4 fuel oil

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S102672151 **DIST/DIR:** 0.377 SE **ELEVATION:** 23 **MAP ID:** 82

NAME: 1080 WHEELER AVE
ADDRESS: 1080 WHEELER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9300539 / 2002-12-20
ID/Status: 101278
ID/Status: 9300539

Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S103571031 **DIST/DIR:** 0.381 SW **ELEVATION:** 63 **MAP ID:** 83

NAME: VERIZON NEW YORK INC-NY-90201
ADDRESS: 1106 HOE AVENUE
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9108166 / 2000-05-02
ID/Status: 116014
ID/Status: 9108166

LTANKS:
Site ID: 116014
Spill Number/Closed Date: 9108166 / 2000-05-02
Spill Date: 1991-10-30
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: MCTIBBE
Referred To: Not reported
Reported to Dept: 1991-10-31
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1991-11-07
Spill Record Last Update: 2000-05-02
Spiller Name: Not reported
Spiller Company: NY TEL
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 100990
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TIBBE refer to 97-05834"
Remarks: "E I & R"

Material:
Site ID: 116014
Operable Unit ID: 958560
Operable Unit: 01
Material ID: 420330
Material Code: 0008
Material Name: diesel

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S103571031 **DIST/DIR:** 0.381 SW **ELEVATION:** 63 **MAP ID:** 83

NAME: VERIZON NEW YORK INC-NY-90201

ADDRESS: 1106 HOE AVENUE
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9108166 / 2000-05-02
ID/Status: 116014
ID/Status: 9108166

Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 116014
Spill Tank Test: 1539250
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Unknown

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S105135043 **DIST/DIR:** 0.386 NNW **ELEVATION:** 71 **MAP ID:** 84

NAME: MADISON SQUARE BOYS & GIRLS CLUB HOUSE
ADDRESS: 1665 HOE AV
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0104700 / 2005-07-14
ID/Status: 99970
ID/Status: 0104700

LTANKS:
Site ID: 99970
Spill Number/Closed Date: 0104700 / 2005-07-14
Spill Date: 2001-08-01
Spill Cause: Tank Test Failure
Spill Source: Private Dwelling
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: RXMUSTIC
Referred To: Not reported
Reported to Dept: 2001-08-01
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2001-08-01
Spill Record Last Update: 2005-07-14
Spiller Name: CEDERIC DEW
Spiller Company: MADISON AV CLUB
Spiller Address: 1665 HOE AV
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: CEDERIC DEW
Spiller Phone: (718) 328-3900
Spiller Extention: 13
DEC Region: 2
DER Facility ID: 88809
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was KRIMGOLD John Leddy Protest submitted passing report for test on 10/2/01. PBS (Jie) did not process the passing test reports due to discrepancy of tank capacity. 01/26/04 TRANSFERRED FROM ROMMEL TO AUSTIN 02/17/04: Reassigned from AUSTIN to KRIMGOLD. Mustico - 10/2/2001, Protest Enterprises conducted an excavate and isolate, and tank retest. Sent 05/29/2002 letter to Mr. Moore of Madison Square Boys & Girls Club House with passing test report conducted on 10/2/2001."
Remarks: "no comments"

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S105135043 **DIST/DIR:** 0.386 NNW **ELEVATION:** 71 **MAP ID:** 84

NAME: MADISON SQUARE BOYS & GIRLS CLUB HOUSE
ADDRESS: 1665 HOE AV
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0104700 / 2005-07-14
ID/Status: 99970
ID/Status: 0104700

Material:
Site ID: 99970
Operable Unit ID: 843207
Operable Unit: 01
Material ID: 533182
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

SHWS

EDR ID: 1004565965 **DIST/DIR:** 0.387 SW **ELEVATION:** 62 **MAP ID:** 85

NAME: BETHEL CLEANERS

ADDRESS: 1120 WESTCHESTER AVE
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 513986
ID/Status: Significant threat to the public health or e

SHWS:
Program: HW
Site Code: 513986
Classification: Significant threat to the public health or environment - action required.
Region: 2
Acres: 0.021
HW Code: 203083
Record Add: 09/21/2015
Record Upd: 08/11/2016
Updated By: BXANDERS
Site Description: Location: The 900 square foot site is located at 1120 Westchester Avenue in Bronx County, NY in an urban area. Site Features: The site is located at 1120 Westchester Avenue, Bronx, New York. According to the New York City Department of Buildings the site is listed as block 2750 and lot 11. Records indicated that the subject building was built in approximately 1922. The building is a two story brick structure with a retail wine and liquor store currently occupying the first floor and one residential apartment on the second floor. The building occupies the entire lot, which is served by public water supply. Current Zoning and Land Use: The site is bordered by mixed use residential and retail properties on all three sides and Westchester Ave in front (to the north).Past Use of the Site:According to Sanborn History Maps, the subject property was vacant from the 1890s to the 1910s. There is no information regarding property use from the 1910s until the 1950s. The property was then used for both a retail store (including a drycleaner) and residential from 1950 to the present day. The Phase II Report did not note for how long the drycleaner operated on the property. Site Geology and Hydrogeology:The subsurface lithology encountered during the investigation consisted of brown fine silt-sand with some gravel. The site topography is generally flat and is situated approximately fifty (50) feet above mean sea level. Refusal due to competent bedrock was encountered at approximately three (3) feet below grade in the basement and twenty-two (22) feet below grade in the sidewalk area. Based upon a review of a groundwater contour map for the area it is anticipated the regional groundwater flow is from the west to the east towards the Bronx River.
Env Problem: Nature and Extent of Contamination: Preliminary investigation results indicate the site is contaminated with volatile organic compounds (VOCs).Soil The analytical results for the soil samples were compared to the unrestricted use soil cleanup objectives (SCOs) listed in the NYSDEC CP-51 and NYCRR Part 375-6.8(a). The maximum tetrachloroethene (PCE) concentration in soil was 100 parts per million (ppm), at a

- Continued on next page -

SHWS

EDR ID: 1004565965 **DIST/DIR:** 0.387 SW **ELEVATION:** 62 **MAP ID:** 85

NAME: BETHEL CLEANERS

ADDRESS: 1120 WESTCHESTER AVE
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 513986
ID/Status: Significant threat to the public health or e

depth of 0-3 below grade (SB-1B). A maximum observed xylene concentration of 2.7 ppm, and 1,2,4-trimethylbenzene concentration of 7 ppm were detected at depth range of 0-3 in SB-3. All other analytes are below unrestricted use SCOs. Groundwater Not sampled due to drilling refusal.Soil Vapor Analytical results of soil vapor samples were compared to NYSDOH sub-slab guidelines. The maximum tetrachloroethene (PCE) sample concentration was 125,000 ug/m3 at a SSV-1. The maximum trichloroethene (TCE) concentration of 179 ug/m3 was observed at SSV-1. The corresponding indoor air concentration of PCE was 196 g/m3 at IA-1, located in the basement of the building; and IA-2 at 45.8 g/m3, located on the first floor in the liquor store.
Not reported
Health Problem: People are not drinking the groundwater because the area is served by a public water supply that is not affected by this contamination. Since the site is covered by pavement and the building basement has a concrete floor, people should not come into direct contact with site-related soil contamination unless the pavement, building, or basement floor is disturbed. Volatile organic compounds in the soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Environmental sampling has identified impacts associated with soil vapor intrusion at the on-site building and actions are recommended to address exposure. In addition, environmental sampling is recommended to determine if soil vapor intrusion is a concern for off-site buildings.
Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 9/21/2015 1:00:00 PM
Record Upd: 5/17/2016 10:37:00 AM
Updated By: MXYAU
Own Op: Owner
Sub Type: 03
Owner Name: Not reported
Owner Company: West Levy, LLC
Owner Address: 2140 East 7th Street
Owner Addr2: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

SHWS

EDR ID: 1004565965 **DIST/DIR:** 0.387 SW **ELEVATION:** 62 **MAP ID:** 85

NAME: BETHEL CLEANERS

ADDRESS: 1120 WESTCHESTER AVE
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 513986
ID/Status: Significant threat to the public health or e

Owner City,St,Zip: Brooklyn, NY 11223
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: 05
Owner Name: -
Owner Company: West Levy, LLC
Owner Address: 2140 East 7th Street
Owner Addr2: Not reported
Owner City,St,Zip: Brooklyn, NY 11223
Owner Country: United States of America
HW Code: 203083
Waste Type: xylene (mixed)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 203083
Waste Type: 1,2,4-trimethylbenzene
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 203083
Waste Type: trichloroethene (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 203083
Waste Type: tetrachloroethene (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100145517 **DIST/DIR:** 0.389 NW **ELEVATION:** 63 **MAP ID:** 86

NAME: MINFORD PL &EAST 172ND ST

ADDRESS: MINFORD PL / E 172ND ST
NEW YORK CITY, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8904140 / 1998-02-09
ID/Status: 157699
ID/Status: 8904140

LTANKS:
Site ID: 157699
Spill Number/Closed Date: 8904140 / 1998-02-09
Spill Date: 1989-07-26
Spill Cause: Tank Overfill
Spill Source: Private Dwelling
Spill Class: Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 1989-07-26
CID: Not reported
Water Affected: Not reported
Spill Notifier: Local Agency
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1989-08-01
Spill Record Last Update: 1998-02-09
Spiller Name: Not reported
Spiller Company: MILCHMAN REALTY-OWNER
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 133343
DEC Memo: ""
Remarks: "HIRED FENELY & NICHOL UNDER DEC CONTRACT TO PUMP OIL FROM ABANDDONED UNDERGROUND TANK LEFT MANHOLE OPEN WITH AN OIL SPILL ONTO SURFACE. SERIOUS HAZARD TO PUBLIC LOT OPEN AND NEXT TO OPEN FIELD."

Material:
Site ID: 157699
Operable Unit ID: 929523
Operable Unit: 01
Material ID: 448205
Material Code: 0001A

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100145517 **DIST/DIR:** 0.389 NW **ELEVATION:** 63 **MAP ID:** 86

NAME: MINFORD PL &EAST 172ND ST

ADDRESS: MINFORD PL / E 172ND ST
NEW YORK CITY, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8904140 / 1998-02-09
ID/Status: 157699
ID/Status: 8904140

Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 2000.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S103824494 **DIST/DIR:** 0.399 SE **ELEVATION:** 43 **MAP ID:** 87

NAME: SIMCHESTER REALTY
ADDRESS: 1105 BOYNTON AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9814911 / 1999-03-16
ID/Status: 201337
ID/Status: 9814911

LTANKS:
Site ID: 201337
Spill Number/Closed Date: 9814911 / 1999-03-16
Spill Date: 1999-03-16
Spill Cause: Tank Overfill
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: JXZHAO
Referred To: Not reported
Reported to Dept: 1999-03-16
CID: 384
Water Affected: Not reported
Spill Notifier: Local Agency
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1999-03-16
Spill Record Last Update: 1999-03-17
Spiller Name: JOHN HARDER
Spiller Company: SIMCHESTER REALTY
Spiller Address: 1105 BOYNTON AV
Spiller City,St,Zip: BRONX, NY 10455-
Spiller County: 001
Spiller Contact: JOHN HARDER
Spiller Phone: (718) 993-8050
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 167512
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was
ZHAO 11:50AM SPILL ON DIRT AREA HAS BEEN COMPLETELY CLEANED-UP."
Remarks: "WHILE MAKING A DELIVERY TANK WAS OVERFILLED DUE TO FAULTY OVERFILL
GAUGE. CLEAN UP WILL BE DONE BY CASTLE OIL."

Material:
Site ID: 201337
Operable Unit ID: 1072774
Operable Unit: 01
Material ID: 311580
Material Code: 0003A

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S103824494 **DIST/DIR:** 0.399 SE **ELEVATION:** 43 **MAP ID:** 87

NAME: SIMCHESTER REALTY
ADDRESS: 1105 BOYNTON AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9814911 / 1999-03-16
ID/Status: 201337
ID/Status: 9814911

Material Name: #6 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 5.00
Units: Gallons
Recovered: 5.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S102149618 **DIST/DIR:** 0.417 SSE **ELEVATION:** 19 **MAP ID:** 88

NAME: EXXONMOBIL
ADDRESS: 1419 BRUCKNER BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9112926 / 1993-12-14
ID/Status: 297773
ID/Status: 9112926

LTANKS:
Site ID: 297773
Spill Number/Closed Date: 9112926 / 1993-12-14
Spill Date: 1991-11-26
Spill Cause: Tank Failure
Spill Source: Gasoline Station or other PBS Facility
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: 1993-12-14
Cleanup Meets Standard: True
SWIS: 0301
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 1992-03-20
CID: Not reported
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1992-03-31
Spill Record Last Update: 2003-10-17
Spiller Name: JOANNE WALLACH
Spiller Company: EXXONMOBIL
Spiller Address: 3225 GALLLOWS ROAD
Spiller City,St,Zip: FAIRFAX, VA 22037
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 240917
DEC Memo: ""
Remarks: "CONTAMINATED SOIL"

Material:
Site ID: 297773
Operable Unit ID: 966518
Operable Unit: 01
Material ID: 414474
Material Code: 0009
Material Name: gasoline
Case No.: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S102149618 **DIST/DIR:** 0.417 SSE **ELEVATION:** 19 **MAP ID:** 88

NAME: EXXONMOBIL

ADDRESS: 1419 BRUCKNER BLVD
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9112926 / 1993-12-14
ID/Status: 297773
ID/Status: 9112926

Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S101658297 **DIST/DIR:** 0.418 South **ELEVATION:** 40 **MAP ID:** 89

NAME: U- HAUL
ADDRESS: 1365 BRUCKNER BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9407671 / 2007-06-29
ID/Status: 150546
ID/Status: 9407671

LTANKS:
Site ID: 150546
Spill Number/Closed Date: 9407671 / 2007-06-29
Spill Date: 1994-09-08
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. (Highly Improbable)
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: aaobliga
Referred To: Not reported
Reported to Dept: 1994-09-08
CID: Not reported
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1994-10-25
Spill Record Last Update: 2007-06-29
Spiller Name: Not reported
Spiller Company: U- HAUL
Spiller Address: 1365 BRUCKNER BLVD
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 128012
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 4/12/04-Vought-Spill transferred from Miller to Vought as per Rommel. 3/10/05-Vought-Spoke to Mike Morris (ATC 212-353-8280x345) who is requesting site status. Vought told him to call back in two weeks if DEC has not contacted him with review results. 3/17/2004-File review by Vought: Underground Storage Tank Closure Plan (Tone Tank and Pump) Dec 1993. The facility is bounded on the south by Bruckner Blvd, on the north, east and west by commercial properties . The site contains twelve (550-gallon) gasoline USTs and one (550-gallon) fuel oil UST. Report covers procedures for tank contents removal, purging of vapors, cleaning of tanks, tank removal,

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S101658297 **DIST/DIR:** 0.418 South **ELEVATION:** 40 **MAP ID:** 89

NAME: U- HAUL
ADDRESS: 1365 BRUCKNER BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9407671 / 2007-06-29
ID/Status: 150546
ID/Status: 9407671

laboratory analysis, waste disposal, reports and recommendations. Final Site Assessment Work Plan-5/27/94. Revised Final Site Assessment Workplan-7/8/94. Fax from American Hi-Tech-10/13/94. Fuel oil excavation endpoints. Six sidewall endpoints and two bottom endpoints collected. Sample analyticals show only minor SVOC exceedences attributable to fill material. Fax from American Hi-Tech-10/13/94. Gasoline UST excavation endpoints. Eight endpoint soil samples taken from sidewall of excavation and no bottom endpoint samples were collected. Soil analyticals show 2300ppb xylene(TB1 at 8'bg), 9800ppb xylene(TB3 at 10'bg), 1100ppb MTBE(TB3 at 10'bg), 620ppb benzene(TB4 at 8'bg), 18000ppb toluene(TB4 at 8'bg), 33000ppb ethylbenzene(TB4 at 8'bg), 120000ppb xylene(TB4 at 8'bg). Site Assessment Report (American Hi-Tech)-10/31/94. The gasoline tanks had on dispenser island located approximately ten feet away from the tanks . One soil sample was collected as dispenser island and showed no TAGM 4046 Soil Cleanup Objective exceedences. Report recommends that additional remedial activity may be warranted for both the heating oil and gasoline tank excavations . 3/17/05-Vought-DEC requires: 1)groundwater sample at former UST tankfield in particular at former sidewall sample location TB4 and TB3. Vought sent letter with above requirement on 3/17/05. 4/5/05-Vought-Received message from Michael Morris. Vought returned call and left message to return call to DEC. Vought received message from Morris. 4/6/05-Vought-Called Morris (212-353-8280x345) and left message to return call to DEC. Vought spoke to Morris and he will perform groundwater sampling at required locations. If contamination is found additional Geoprobe locations will be performed as opposed to installation of monitoring wells. 6/8/05-Vought-Reviewed Remedial Action Report (ATC Associates) dated 5/5/05 and received on 5/13/05. Six soil borings were performed at site. Based on these findings, petroleum impacted soils remain at the Site. The extent of soil contamination appears to be delineated to the west; however, additional delineation is required to the north, south and east . Additionally ATC recommends that a groundwater monitoring well be installed by a hollow stem auger drill rig to evaluate if groundwater beneath the Site has been impacted . 121.69 tons of soil were removed with UST removal. Four soil samples were collected for analysis. Soil analyticals show: 11000ppb ethylbenzene(B3 8-10'bg), 50200ppb xylenes(B3 8-10'bg), 5290ppb toluene(B4B 8-9'bg), 84800ppb ethylbenzene(B4B 8-9'bg), 301ppb xylene(B4B 8-9'bg). Vought sent letter approving of installation of proposed monitoring wells and delineation to the north, south and east. 8/5/05-Vought-Received call from Michael Moore (ATC) and bedrock encountered at 19-21' below grade. Vought agreed that no groundwater sample is required if clean soil encountered before bedrock. Delineation investigation will be

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S101658297 **DIST/DIR:** 0.418 South **ELEVATION:** 40 **MAP ID:** 89

NAME: U- HAUL
ADDRESS: 1365 BRUCKNER BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9407671 / 2007-06-29
ID/Status: 150546
ID/Status: 9407671

performed via hollow stem auger. 9/26/05 - Obligado- FILE TRANSFERRED FROM VOUGHT TO OBLIGADO 1/10/06 - Obligado - Received phone call from Charlie Talinger -ATC - (212)353-8280. Said they did a soil investigation with 6 borings. Will send the report. 2/23/06 - Obligado - phone call from Charlie Tallinger, asked if DEC hs reviewed subsurface investigation report yet. Told him it has not been reviewed. 2/24/06 - Obligado - Review subsurface investigation report. Impacts at only 1 additional boring location, B9, located south of the former USTs at the 5-6 ft depth interval. Bedrock in this well was located at 15 ft bgs. Soil results in ppb showed 6850 n-propylbenzene, 15,200 1,2,4 trimethlybenzene, 8,300 xylenes. Requests closure based on, UST source removed, no grossly impacted soils remain beneath the Site, and no impacted soils were observed near the soil/bedrock interface. 4/11/06 - Obligado - Sent letter denying no further action due to soil contamination. Required submission of RAP to remediate soil contamiation due 6/11/06 6/9/06 - Obligado - Email request for deadline extension from Michael Morris. Granted 1 month extension, new due date is July 11, 2006. 9/18/06 - Obligado - Spoke to Cecil Flekton of Environmental Resource Management (315-445-2554 ext 27 and 315-506-9537), she is new consultant for this site. Because of the change in consultant I gave a new RAP deadline of October 13, 2006. 10/9/06 - Obligado - Received Email from Cecil Flekton. They received all the files transferred from ATC. 10/20/06 - Obligado - Spoke to Cecil Flekton, she said the RAP will be ready 11/27/06 11/17/06 - Obligado - Reviewed RAP for soil vapor extraction to treat vadose soil contamination. Install extraction well and vacuum monitoring points in December 2006. Conduct SVE pilot test in January 2007. Submit SVE Pilot Test Report by February 2007. Approved RAP, sent Robert Fraley approval letter via certified mail. 1/3/07 - Obligado - Emailed Cecile Flekton to inquire in SVE well and vapor monitoring points have been installed. Reply: The extraction well and vapor monitoring points are scheduled for installation next week, January 8 -9th. And the pilot is tentatively schedule for January 15 -18th. 1/23/07- Obligado - Email from Flekton - completed the installation of the vapor monitoring points and extraction well during the week of January 8th and completed the SVE pilot test last week (week of the 15th). The SVE pilot went well and we are currently compiling the data 3/1/07 - Obligado - Spoke with Flekton. She said the SVE pilot was not successful. The radiu of influence was only 6’ and there was high flow with low vacuum suggesting short circuiting possibly through utilily conduit. She will submit a report and she recommends doing limited excavation instead since soils are only 9’ deep. 4/13/07 - Obligado - Review Rrevised RAP. SVE pilot test was not successful. Poor vacuum influence might have been due to short circuiting.

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S101658297 **DIST/DIR:** 0.418 South **ELEVATION:** 40 **MAP ID:** 89

NAME: U- HAUL

ADDRESS: 1365 BRUCKNER BLVD
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9407671 / 2007-06-29
ID/Status: 150546
ID/Status: 9407671

Proposes source removal via excavation of contaminated soil instead of SVE. Plans to excavate up to 300 cubic yards of soil. Plan includes a CAMP with site monitoring for VOCs with a PID. I called Cecile Fleckton to discuss. I asked if they would be stockpiling any contaminated soil on site. She said no and that the contaminated soil would be transported off-site the same day. I told her that if they do need to stockpile then piles should be staged on and covered with tarps to prevent storm water runoff and control odors. I told her I would approve the RAP. 4/17/07 - Obligado - Sent RAP approval letter via mail and emailed cc to Cecile. 5/1/07 - Obligado - Cecile Fleckton called to update on status of excavation work, she said contamination was deeper then the 9 ft interval documented in the reports. I told her to excavate as deep as health and safety constraints would allow to remove as much contaminated soil as possible. 5/2/07 - Obligado - Met Bill Marris on site to see excavation. At time of visit there were two open excavations. A large stockpile (~200 cubic yards) of soil on northern portion of the site resting on tarps. Area around b4 and b4b had already been excavated and soil endpoints had been collected and the holes backfilled. In central portion of tank area a test pit was dug down to 12 ft where PID readings were ~400 ppm at bottom, but could not go any further down due to large boulders. According to onsite staff additional excavation needed to be performed north of B3, west of test pit area, and in B1 area. 5/10/07 - Obligado - Email from Cecile Fleckton. 4 unknown USTs were found at the site. They are in the process of being removed. Excavation expected to proceed until next Thursday. 6/21/07 - Obligado - UST Closure report received by DEpartment. 575.99 tons of contaminated soil removed from the site and transported to Soil Safe Inc. of Bridgeport NJ. 4 previously unknown abandoned USTs were removed as well. Endpoint sampling below SCOs for VOCs for 16 of 19 soil samples. Most samples had minor SVOC PAH exceedences. Of 3 soil samples with VOC exceedences, 1 sample EX5E had 3770 ppb 1,3,5 trimethlybenzene, 470 ppb over limit. Sample EX 5SW was 360 ppb over the same limit and 100 ppb over the xylene limit. EX5SE was the only sample with significant impacts over SCO limits. 1,3,5 trimethly benzene was 24,000 ppb, while the limit is 3,300 and total xylenes was 12,300 ppb, while the limit is 1200. 4 other compounds exceeded SCOS of this sample as well. Waste manifests were included. I discussed this site with Joe Sun. We agreed to close the site based on the following: 1) only 1 sample had significant exceedences of SCOs. 2) There was an 87% reduction in total VOC concentrations from the hottest sample collected before and the hottest sample collected after excavation. 3) 600 tons of contaminated soil removed and properly disposed of 4) Bedorck at 20 ft and no ground water encountered above the bedrock 5) 4 additional USTs were found and

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S101658297 **DIST/DIR:** 0.418 South **ELEVATION:** 40 **MAP ID:** 89

NAME: U- HAUL
ADDRESS: 1365 BRUCKNER BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9407671 / 2007-06-29
ID/Status: 150546
ID/Status: 9407671

removed so no known source of contamination is remaining. 6)
Remaining soil contamination is of limited extent. Send NFA to Cecile
and Uhaul. "
Remarks: "EXCAVATING TANKS- FOUND CONTAMINATED SOI WILL STOCKPILE & SAMPLE"

Material:
Site ID: 150546
Operable Unit ID: 1005265
Operable Unit: 01
Material ID: 380672
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000410692 **DIST/DIR:** 0.422 NE **ELEVATION:** 31 **MAP ID:** 90

NAME: BRONX RIVER HOUSES -NYCHA
ADDRESS: 1575 EAST 174TH STREET
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9411941 / 2006-02-03
ID/Status: 9412464 / 2006-02-03
ID/Status: 240316
ID/Status: 250806
ID/Status: 9411941

LTANKS:
Site ID: 240316
Spill Number/Closed Date: 9411941 / 2006-02-03
Spill Date: 1994-12-07
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SWKRASZE
Referred To: Not reported
Reported to Dept: 1994-12-07
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1994-12-08
Spill Record Last Update: 2006-02-03
Spiller Name: Not reported
Spiller Company: NYC HOUSING AUTHORITY
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 205591
DEC Memo: "12/21/05: This spill transferred from J.Kolleeny to S.Kraszewski.
02/03/06: This spill closed to consolidate with open spill #8908309.
- SK"
Remarks: "ISOLATE-REPAIR-RETEST"

Material:
Site ID: 240316
Operable Unit ID: 1005571
Operable Unit: 01
Material ID: 374277
Material Code: 0002A

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000410692 **DIST/DIR:** 0.422 NE **ELEVATION:** 31 **MAP ID:** 90

NAME: BRONX RIVER HOUSES -NYCHA
ADDRESS: 1575 EAST 174TH STREET
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9411941 / 2006-02-03
ID/Status: 9412464 / 2006-02-03
ID/Status: 240316
ID/Status: 250806
ID/Status: 9411941

Material Name: #4 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 240316
Spill Tank Test: 1543425
Tank Number: 002
Tank Size: 0
Test Method: 00
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Unknown

Site ID: 250806
Spill Number/Closed Date: 9412464 / 2006-02-03
Spill Date: 1994-12-16
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SWKRASZE
Referred To: Not reported
Reported to Dept: 1994-12-16
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1994-12-22
Spill Record Last Update: 2006-02-03

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000410692 **DIST/DIR:** 0.422 NE **ELEVATION:** 31 **MAP ID:** 90

NAME: BRONX RIVER HOUSES -NYCHA
ADDRESS: 1575 EAST 174TH STREET
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9411941 / 2006-02-03
ID/Status: 9412464 / 2006-02-03
ID/Status: 240316
ID/Status: 250806
ID/Status: 9411941

Spiller Name: Not reported
Spiller Company: NYC HOUSING AUTHORITY
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 205591
DEC Memo: "12/21/05: This spill transferred from J.Kolleeny to S.Kraszewski.
02/03/06: This spill closed to consolidate with open spill #8908309.
- SK"
Remarks: "GROSS FAILURE - COULD NOT MAINTAIN LEVEL"

Material:
Site ID: 250806
Operable Unit ID: 1006109
Operable Unit: 01
Material ID: 374772
Material Code: 0002A
Material Name: #4 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 250806
Spill Tank Test: 1543461
Tank Number: 001
Tank Size: 0
Test Method: 00
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Unknown

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S102147495 **DIST/DIR:** 0.424 SE **ELEVATION:** 19 **MAP ID:** 91

NAME: ROADWAY
ADDRESS: 1035 WHEELER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9611589 / 1996-12-30
ID/Status: 60767
ID/Status: 9611589

LTANKS:
Site ID: 60767
Spill Number/Closed Date: 9611589 / 1996-12-30
Spill Date: 1996-12-20
Spill Cause: Tank Overfill
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: ADZHITOM
Referred To: Not reported
Reported to Dept: 1996-12-21
CID: 266
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1996-12-21
Spill Record Last Update: 1997-01-02
Spiller Name: Not reported
Spiller Company: CEASAR BORRERO
Spiller Address: 1035 WHEELER AVENUE
Spiller City,St,Zip: BRONX, NY 10472-
Spiller County: 001
Spiller Contact: CEASAR BORRERO
Spiller Phone: (718) 842-1667
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 59259
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ZHITOMIRSKY "
Remarks: "CUSTOMER ORDERED TOO MUCH OIL. OIL SPRAYED ON OUTSIDE OF RESIDENCE AND ONTO CONCRETE. CLEANED UP."

Material:
Site ID: 60767
Operable Unit ID: 1042964
Operable Unit: 01
Material ID: 569600
Material Code: 0001A

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S102147495 **DIST/DIR:** 0.424 SE **ELEVATION:** 19 **MAP ID:** 91

NAME: ROADWAY
ADDRESS: 1035 WHEELER AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9611589 / 1996-12-30
ID/Status: 60767
ID/Status: 9611589

Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 5.00
Units: Gallons
Recovered: 5.00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

BROWNFIELDS

EDR ID: S110748432 **DIST/DIR:** 0.430 WSW **ELEVATION:** 59 **MAP ID:** 92

NAME: 1095 SOUTHERN BLVD.- OFF-SITE

ADDRESS: 1095 SOUTHERN BLVD.
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 461295
ID/Status: 442053

BROWNFIELDS:
Program: BCP
Site Code: 461295
Acres: 0.23
HW Code: C203055A
SWIS: 0301
Town: New York City
Record Added Date: 02/23/2012
Record Updated Date: 02/05/2016
Update By: JHOCONNE
Site Description: Location:The site C203055A is the area considered off-site from BCP site C203055, which is located at 1095 Southern Boulevard in the Bronx. The off-site area was defined to reflect the potential migration of contaminants from the BCP site, and includes the eastern sidewalk of Southern Boulevard across from the BCP site; and the buildings adjacent to the BCP site on the north, south, and west. Site Features:The off-site area consists of the residential buildings immediately adjacent to the north and west of 1095 Southern Blvd, a commercial building immediately adjacent to the south, and Southern Blvd to the east followed by a parking lot further east across Southern Blvd. To the northeast and southeast across Southern Blvd are mixed commercial/residential buildings. The BCP site at 1095 Southern Boulevard is vacant. Current Zoning/Uses:The off-site area consists of residential and commercial buildings. The BCP site at 1095 Southern Boulevard is currently vacant and undeveloped and is zoned R7-1 (residential district), with a C2-4 commercial overlay meaning that the property can be used for residential, commercial, or mixed (residential plus commercial) use. The proposed on-site development is for an office building, with below-grade parking. Historical Use:The BCP site C203055 has historically been used for several commercial uses including, most recently, a dry cleaning facility. Site Geology and Hydrogeology:The elevation at the BCP site is approximately 59 feet above mean sea level. Bedrock has been identified at depths ranging from 12 to 24 feet below surface grade. The depth to groundwater beneath the site is approximately 9 feet to 12 feet below ground surface. The groundwater flow direction beneath the site is east.
Env Problem: This site represents an off-site project to investigate the area surrounding, and downgradient of, BCP Site C203055 (1095 Southern Blvd). The investigation determined that no further action is required.Nature and extent of contamination:The contaminants of concern at BCP site C203055 are chlorinated solvents, consistent with the previous use of the site as a dry cleaner. Chlorinated solvents including tetrachloroethylene (PCE) and its breakdown products have

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

BROWNFIELDS

EDR ID: S110748432 **DIST/DIR:** 0.430 WSW **ELEVATION:** 59 **MAP ID:** 92

NAME: 1095 SOUTHERN BLVD.- OFF-SITE
ADDRESS: 1095 SOUTHERN BLVD.
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 461295
ID/Status: 442053

been detected in soil, groundwater, and soil vapor in the subsurface of site C203055. Chlorinated solvents were therefore the focus of the investigation for the off-site project.Soil:The off-site investigation did not include soil analysis since there was no reason to believe that contaminants were disposed off-site.Groundwater:During the remedial investigation for the BCP site, elevated concentrations of chlorinated solvents were detected in groundwater in one off-site monitoring well located on the sidewalk just outside the property boundary. At this location, PCE was detected at 51,000 parts per billion (ppb); trichloroethylene (TCE) was detected at 52,000 ppb; and cis-1,2-dichloroethylene was detected at 12,000 ppb. The applicable groundwater quality standard for these contaminants is 5 ppb. Vinyl chloride was also detected at 13,000 ppb compared to the standard of 2 ppb. An off-site investigation was performed to determine if these contaminants were migrating further off-site. Groundwater samples were collected from both permanent monitoring wells and grab samples across Southern Boulevard, in the downgradient direction of groundwater flow. No contaminants of concern were detected in these samples. The extent of off-site contamination appears to be limited to the area just outside the property boundary from the highest area of on-site contamination. Soil vapor and indoor air:Soil vapor intrusion evaluations were performed in the two buildings immediately adjacent to the north and south of the site, and two buildings to the west of the site. In the sub-slab soil vapor samples, PCE was detected at a maximum of 52 micrograms per cubic meter (mcg/m3) in one building; however, it was not detected in the indoor air samples collected from that building. In the indoor air samples from other buildings, PCE was detected at a maximum of 8.7 mcg/m3. Based on the sampling that was conducted actions were not needed to address exposures related to soil vapor intrusion. To the east of the site, two soil vapor samples were collected from beneath the sidewalk across Southern Boulevard. PCE was detected at concentrations of 45 mcg/m3 and 6.2 mcg/m3. Trichloroethene (TCE) was also detected at concentrations of 5.4 mcg/m3 and 0.37 mcg/m3. Based on these sampling results and other site-related information no additional actions were recommended.

Health Problem: People are not drinking contaminated groundwater because the area is served by a public water supply not affected by the site. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Environmental sampling indicates that soil vapor intrusion is not a concern for buildings adjacent to the 1095 Southern Boulevard site.

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

BROWNFIELDS

EDR ID: S110748432 **DIST/DIR:** 0.430 WSW **ELEVATION:** 59 **MAP ID:** 92

NAME: 1095 SOUTHERN BLVD.- OFF-SITE
ADDRESS: 1095 SOUTHERN BLVD.
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 461295
ID/Status: 442053

Dump: Not reported
Structure: Not reported
Lagoon: Not reported
Landfill: Not reported
Pond: Not reported
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: Not reported
Record Upd: Not reported
Updated By: Not reported
Own Op: Not reported
Sub Type: Not reported
Owner Name: Not reported
Owner Company: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Country: Not reported
HW Code: Not reported
Waste Type: Not reported
Waste Quantity: Not reported
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

Program: BCP
Site Code: 442053
Acres: 0.23
HW Code: C203055
SWIS: 0301
Town: New York City
Record Added Date: 11/16/2010
Record Updated Date: 06/04/2015
Update By: JHOCONNE
Site Description: Location:The site is located at 1095 Southern Boulevard in the Bronx. It is bordered by Southern Boulevard to the east, residential buildings immediately adjacent to the north and west, and a commercial building immediately adjacent to the south. Further east across Southern Boulevard are commercial properties.Site Features:The

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

BROWNFIELDS

EDR ID: S110748432 **DIST/DIR:** 0.430 WSW **ELEVATION:** 59 **MAP ID:** 92

NAME: 1095 SOUTHERN BLVD.- OFF-SITE
ADDRESS: 1095 SOUTHERN BLVD.
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 461295
ID/Status: 442053

site is approximately 0.23 acres and is currently vacant and unused. The previous on-site building was destroyed in a fire in 2008. Current Zoning and Land Use:The site is currently vacant and undeveloped, following a fire in 2008 which destroyed the on-site building. The site is zoned R7-1 (residential district), with a C2-4 commercial overlay meaning that it can be used for residential, commercial, or mixed (residential plus commercial) use. Past Use of the Site:The site has historically been used for several commercial uses including, most recently, as a dry cleaning facility. It appears that chlorinated solvents detected on-site are related to the historical dry cleaning use.Site Geology and Hydrogeology:The elevation of the site is approximately 59 feet above mean sea level. Bedrock has been identified at a depth of approximately 24 feet below surface grade. The depth to groundwater beneath the site is approximately 9 feet to 11 feet below ground surface. The groundwater flow direction beneath the site is east.

Env Problem: Nature and extent of contamination:The contaminants of concern are chlorinated solvents, consistent with the previous use of the site for dry cleaning. Tetrachloroethylene (PCE) and its breakdown products have been detected in soil, groundwater, and soil vapor.Soil:Chlorinated volatile organic compounds (cVOCs) are present in soil predominantly near the eastern border of the site, in the depth range of 14 feet to 20 feet below surface grade. Concentrations of chlorinated VOCs exceed the Unrestricted Use Soil Cleanup Objectives (UUSCOs) in 4 of 14 on-site soil borings, all on the east side of the site. In these borings, PCE was detected as high as 1,200 parts per million (ppm); trichloroethylene (TCE) as high as 120 ppm; and cis-1,2-dichloroethene (DCE) as high as 40 ppm. In comparison, the UUSCOs for these contaminants, respectively, are: 1.3 ppm, 0.47 ppm, and 0.25 ppm. Low concentrations of petroleum-related VOCs and semi-volatile organic compounds (SVOCs) were detected on site, at concentrations below the UUSCOs. Metals detected in soil at concentrations exceeding the UUSCO include: trivalent chromium at 33.8 ppm (UUSCO is 30 ppm); copper at 122 ppm (UUSCO is 50 ppm); lead at 357 ppm (UUSCO is 63 ppm); and zinc at 618 ppm (UUSCO is 109 ppm). Groundwater:The contaminants of concern in groundwater are cVOCs. Similar to soil, concentrations are highest in monitoring wells installed in the eastern portion of the site. PCE and its breakdown products were detected at levels exceeding NYSDEC Ambient Ground Water Quality Standards (AGWQS) in 9 of 11 on-site overburden groundwater monitoring wells, in addition to one monitoring well installed in the sidewalk to the east of the site. Contaminants include: PCE as high as 66,000 parts per billion (ppb) compared to the AGWQS of 5 ppb; TCE as high as 17,000 ppb on-site and 52,000 ppb in an off-site well, compared to AGWQS of 5 ppb; DCE as high as

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

BROWNFIELDS

EDR ID: S110748432 **DIST/DIR:** 0.430 WSW **ELEVATION:** 59 **MAP ID:** 92

NAME: 1095 SOUTHERN BLVD.- OFF-SITE
ADDRESS: 1095 SOUTHERN BLVD.
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 461295
ID/Status: 442053

63,000 ppb compared to AGWQS of 5 ppb; and vinyl chloride detected as high as 7,920 ppb on-site and 13,000 ppb in an off-site well, compared to AGWQS of 2 ppb. These contaminants were also detected in a bedrock monitoring well, at lesser concentrations (the maximum concentration detected in bedrock groundwater was TCE at 410 ppb).Soil vapor:The contaminants of concern are present in on-site soil vapor. PCE was detected as high as 2,800 micrograms per cubic meter (ug/m3) and TCE as high as 280 ug/m3. Significant threat:The site presents a significant threat to public health and the environment due to the high concentrations of chlorinated volatile organic compounds (VOCs) in on-site soil, groundwater, and soil vapor; and due to the potential off-site migration of contaminants via groundwater. An off-site investigation is underway (see site no. C203055A).

Health Problem: Contaminated groundwater at the site is not used for drinking or other purposes and the site is served by a public water supply that obtains water from a different source not affected by this contamination. Access to the site is restricted and contact with contaminated soil is unlikely unless persons dig below the ground surface. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into the overlying buildings and affect indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because the site is vacant, the inhalation of site-related contaminants due to soil vapor intrusion does not represent current concern. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site redevelopment and occupancy. Off-site soil vapor intrusion sampling has not identified any exposures to date. However, additional sampling is recommended as part of the off-site portion of this project.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: 11/16/2010 11:42:00 AM
Record Upd: 9/20/2013 2:22:00 PM
Updated By: ldennist
Own Op: Document Repository
Sub Type: NNN

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

BROWNFIELDS

EDR ID: S110748432 **DIST/DIR:** 0.430 WSW **ELEVATION:** 59 **MAP ID:** 92

NAME: 1095 SOUTHERN BLVD.- OFF-SITE
ADDRESS: 1095 SOUTHERN BLVD.
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 461295
ID/Status: 442053

Owner Name: Not reported
Owner Company: Hunt's Point Library
Owner Address: 877 Southern Boulevard
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10456
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Paloma Hernandez
Owner Company: Urban Health Plan, Inc.
Owner Address: 1065 Southern Blvd.
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10459
Owner Country: United States of America
Own Op: Owner
Sub Type: P03
Owner Name: Paloma Hernandez
Owner Company: 1095 Southern Boulevard Urban LLC
Owner Address: 1065 Southern Boulevard
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10459
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Paloma Hernandez
Owner Company: 1095 Southern Boulevard Urban LLC
Owner Address: 1065 Southern Blvd
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10459
Owner Country: United States of America
Own Op: Document Repository
Sub Type: NNN
Owner Name: Not reported
Owner Company: NYS DEC Region 2
Owner Address: Division of Environmental Remediation
Owner Addr2: 47-40 21st Street
Owner City,St,Zip: Long Island City, NY 11101
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Jeff Kane
Owner Company: 1095 Southern OpCo LLC
Owner Address: 199 West Road, Suite 101
Owner Addr2: Not reported
Owner City,St,Zip: Pleasant Valley, NY, NY 12569

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

BROWNFIELDS

EDR ID: S110748432 **DIST/DIR:** 0.430 WSW **ELEVATION:** 59 **MAP ID:** 92

NAME: 1095 SOUTHERN BLVD.- OFF-SITE
ADDRESS: 1095 SOUTHERN BLVD.
BRONX, NY 10459
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 461295
ID/Status: 442053

Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Jeff Kane
Owner Company: 1095 Southern HoldCo LLC
Owner Address: 199 West Road, Suite 101
Owner Addr2: Not reported
Owner City,St,Zip: Pleasant Valley, NY 12569
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Jeff Kane
Owner Company: 1095 Southern III LLC
Owner Address: 199 West Road, Suite 101
Owner Addr2: Not reported
Owner City,St,Zip: Pleasant Valley, NY 12569
Owner Country: United States of America
Own Op: Applicant/Requestor
Sub Type: P03
Owner Name: Jeff Kane
Owner Company: 1095 Southern IV LLC
Owner Address: 199 West Road, Suite 101
Owner Addr2: Not reported
Owner City,St,Zip: Pleasant Valley, NY 12569
Owner Country: United States of America
HW Code: C203055
Waste Type: DICHLOROETHYLENE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203055
Waste Type: TRICHLOROETHENE (TCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203055
Waste Type: TETRACHLOROETHYLENE (PCE)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203055
Waste Type: LEAD
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203055
Waste Type: BROMOCHLOROMETHANE
Waste Quantity: UNKNOWN
Waste Code: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

BROWNFIELDS

EDR ID: S110748432 **DIST/DIR:** 0.430 WSW **ELEVATION:** 59 **MAP ID:** 92

NAME: 1095 SOUTHERN BLVD.- OFF-SITE

ADDRESS: 1095 SOUTHERN BLVD.
BRONX, NY 10459
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 11/14/2016
ID/Status: 461295
ID/Status: 442053

HW Code: C203055
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203055
Waste Type: VINYL CHLORIDE
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203055
Waste Type: CHROMIUM
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: C203055
Waste Type: 1,1 Dichloroethene
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U003389172 **DIST/DIR:** 0.433 SSW **ELEVATION:** 48 **MAP ID:** 93

NAME: 1025 ALDUS STREET

ADDRESS: 1025 ALDUS STREET
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9211493 / 1993-01-07
ID/Status: 117140
ID/Status: 9211493

LTANKS:
Site ID: 117140
Spill Number/Closed Date: 9211493 / 1993-01-07
Spill Date: 1993-01-06
Spill Cause: Tank Overfill
Spill Source: Tank Truck
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: 1993-01-07
Cleanup Meets Standard: True
SWIS: 0301
Investigator: CAMMISA
Referred To: Not reported
Reported to Dept: 1993-01-06
CID: Not reported
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1993-01-08
Spill Record Last Update: 2004-09-30
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: ***Update***, ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 101907
DEC Memo: ""
Remarks: "CONTAINED IN TANK ROOM CALLER DOING CLEANUP"

Material:
Site ID: 117140
Operable Unit ID: 978465
Operable Unit: 01
Material ID: 404892
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U003389172 **DIST/DIR:** 0.433 SSW **ELEVATION:** 48 **MAP ID:** 93

NAME: 1025 ALDUS STREET

ADDRESS: 1025 ALDUS STREET
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9211493 / 1993-01-07
ID/Status: 117140
ID/Status: 9211493

Material FA: Petroleum
Quantity: 600.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100493393 **DIST/DIR:** 0.462 SE **ELEVATION:** 12 **MAP ID:** 94

NAME: 1499 BRUCKNER BLVD/AMOCO

ADDRESS: 1499 BRUCKNER BLVD/AMOCO
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9200547 / 1992-06-18
ID/Status: 233503
ID/Status: 9200547

LTANKS:
Site ID: 233503
Spill Number/Closed Date: 9200547 / 1992-06-18
Spill Date: 1992-04-14
Spill Cause: Tank Test Failure
Spill Source: Gasoline Station or other PBS Facility
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: 1992-06-18
Cleanup Meets Standard: True
SWIS: 0301
Investigator: SULLIVAN
Referred To: Not reported
Reported to Dept: 1992-04-14
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1992-04-22
Spill Record Last Update: 1992-06-17
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: ***Update***, ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 192385
DEC Memo: ""
Remarks: ""

Material:
Site ID: 233503
Operable Unit ID: 967793
Operable Unit: 01
Material ID: 415333
Material Code: 0009
Material Name: gasoline
Case No.: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100493393 **DIST/DIR:** 0.462 SE **ELEVATION:** 12 **MAP ID:** 94

NAME: 1499 BRUCKNER BLVD/AMOCO

ADDRESS: 1499 BRUCKNER BLVD/AMOCO
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9200547 / 1992-06-18
ID/Status: 233503
ID/Status: 9200547

Material FA: Petroleum
Quantity: -1.00
Units: Not reported
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 233503
Spill Tank Test: 1539867
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Unknown

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100144750 **DIST/DIR:** 0.463 ENE **ELEVATION:** 31 **MAP ID:** 95

NAME: CLOSED-LACKOF RECENT INFO
ADDRESS: 1372 STRAFFORD AVE.
NEW YORK CITY, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8704437 / 2003-03-03
ID/Status: 325285
ID/Status: 8704437

LTANKS:
Site ID: 325285
Spill Number/Closed Date: 8704437 / 2003-03-03
Spill Date: 1987-08-28
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: ADMIN. CLOSED
Referred To: Not reported
Reported to Dept: 1987-08-28
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1987-09-04
Spill Record Last Update: 2003-03-19
Spiller Name: Not reported
Spiller Company: ST. JOAN OF ARK
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 262014
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ADMIN.CLOSED 3/3/2003 Closed Due To The Nature / Extent Of The Spill Report"
Remarks: "5K TANK SYSTEM FAILED HORNER TEST, HIGH VOLUME LEAK, TO ISOLATE AND RETEST. CONTACT REV. KEEHAN AT 212 843-2233.CLOSED DUE TO LACK OF ANY RECENT INFO-DOES NOT MEET ANY CLEAN UP REQUIREMENTS. "

Material:
Site ID: 325285
Operable Unit ID: 910915
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S100144750 **DIST/DIR:** 0.463 ENE **ELEVATION:** 31 **MAP ID:** 95

NAME: CLOSED-LACKOF RECENT INFO
ADDRESS: 1372 STRAFFORD AVE.
NEW YORK CITY, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 8704437 / 2003-03-03
ID/Status: 325285
ID/Status: 8704437

Material ID: 467076
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 325285
Spill Tank Test: 1531508
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Unknown

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S119030012 **DIST/DIR:** 0.477 SE **ELEVATION:** 34 **MAP ID:** 96

NAME: HOME
ADDRESS: 1057 WARD AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1609935 / Not Reported
ID/Status: 538749
ID/Status: 1609935

LTANKS:
Site ID: 538749
Spill Number/Closed Date: 1609935 / Not Reported
Spill Date: 2017-01-30
Spill Cause: Tank Test Failure
Spill Source: Private Dwelling
Spill Class: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: RMPIPER
Referred To: Not reported
Reported to Dept: 2017-01-30
CID: Not reported
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: Not reported
UST Involvement: False
Remediation Phase: 1
Date Entered In Computer: 2017-01-30
Spill Record Last Update: 2017-01-30
Spiller Name: Not reported
Spiller Company: 1057 WARD AVE
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller County: 999
Spiller Contact: N/A
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 492546
DEC Memo: "01/30/17-Hiralkumar Patel. alternate address: none no PBS or other spills found. 1:04 PM:- spoke with Victoria at Protest. she mentioned that Protest conducted a tightness test for a potential buyer (Lourdes Sotamba, 631-507-6745) and found a dry leak in the system. Mary White **property owner** c/o David James Executor of Estate 8824 Vanderveer Street Queens Village, NY 11427-2410 PH. (718) 991-8490 (718) 740-1472 (646) 872-1418 (C) email: djames14@nyc.rr.com 1:10 PM:- left message for Ms. White. 3:20 PM:- received call from David James, executor of Ms. White's estate. he mentioned that Ms. White passed away and he is trying to sell the property. informed Mr. James about further testing/repair/cleanup requirements. 3:43 PM:- sent TTF letter to Mr. James requiring report submission by 03/10/17. letter

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S119030012 **DIST/DIR:** 0.477 SE **ELEVATION:** 34 **MAP ID:** 96

NAME: HOME
ADDRESS: 1057 WARD AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 1609935 / Not Reported
ID/Status: 538749
ID/Status: 1609935

emailed to Mr. James. case assigned to DEC Piper."
Remarks: "550 gal ust"

Material:
Site ID: 538749
Operable Unit ID: 1287329
Operable Unit: 01
Material ID: 2293034
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S104620177 **DIST/DIR:** 0.487 South **ELEVATION:** 39 **MAP ID:** 97

NAME: GETTY
ADDRESS: 1340 BRUCKNER BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9900624 / 1999-08-13
ID/Status: 9901242 / 1999-06-04
ID/Status: 9207805 / 1992-11-02
ID/Status: 246545
ID/Status: 246546

LTANKS:
Site ID: 246545
Spill Number/Closed Date: 9900624 / 1999-08-13
Spill Date: 1999-03-26
Spill Cause: Tank Failure
Spill Source: Gasoline Station or other PBS Facility
Spill Class: Known release that creates potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: O'DOWD
Referred To: Not reported
Reported to Dept: 1999-04-16
CID: 312
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1999-04-16
Spill Record Last Update: 1999-08-13
Spiller Name: Not reported
Spiller Company: GETTY
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller County: 999
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 202458
DEC Memo: ""
Remarks: "contamination detected by gci performing subsurface investigation"

Material:
Site ID: 246545
Operable Unit ID: 1075384
Operable Unit: 01
Material ID: 307751
Material Code: 0009
Material Name: gasoline
Case No.: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S104620177 **DIST/DIR:** 0.487 South **ELEVATION:** 39 **MAP ID:** 97

NAME: GETTY
ADDRESS: 1340 BRUCKNER BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9900624 / 1999-08-13
ID/Status: 9901242 / 1999-06-04
ID/Status: 9207805 / 1992-11-02
ID/Status: 246545
ID/Status: 246546

Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site ID: 246546
Spill Number/Closed Date: 9901242 / 1999-06-04
Spill Date: 1999-05-03
Spill Cause: Tank Failure
Spill Source: Gasoline Station or other PBS Facility
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: JMROMMEL
Referred To: Not reported
Reported to Dept: 1999-05-03
CID: 205
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1999-05-03
Spill Record Last Update: 2000-01-24
Spiller Name: Not reported
Spiller Company: OLD GETTY STATION
Spiller Address: 1340 BRUCKNER BLVD
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: CALLER
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 202458
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL Closed and cross referenced to 9901256 JMR"

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S104620177 **DIST/DIR:** 0.487 South **ELEVATION:** 39 **MAP ID:** 97

NAME: GETTY
ADDRESS: 1340 BRUCKNER BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9900624 / 1999-08-13
ID/Status: 9901242 / 1999-06-04
ID/Status: 9207805 / 1992-11-02
ID/Status: 246545
ID/Status: 246546

Remarks: "caller pulled tank from abandoned gas station. contamination found."

Material:
Site ID: 246546
Operable Unit ID: 1079952
Operable Unit: 01
Material ID: 304788
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site ID: 321907
Spill Number/Closed Date: 9207805 / 1992-11-02
Spill Date: 1992-10-06
Spill Cause: Tank Test Failure
Spill Source: Gasoline Station or other PBS Facility
Spill Class: Known release that creates potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: 1992-11-02
Cleanup Meets Standard: True
SWIS: 0301
Investigator: O'DOWD
Referred To: Not reported
Reported to Dept: 1992-10-06
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 1992-10-07
Spill Record Last Update: 2002-02-22
Spiller Name: Not reported
Spiller Company: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S104620177 **DIST/DIR:** 0.487 South **ELEVATION:** 39 **MAP ID:** 97

NAME: GETTY
ADDRESS: 1340 BRUCKNER BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9900624 / 1999-08-13
ID/Status: 9901242 / 1999-06-04
ID/Status: 9207805 / 1992-11-02
ID/Status: 246545
ID/Status: 246546

Spiller Address: Not reported
Spiller City,St,Zip: ***Update***, ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 259319
DEC Memo: ""
Remarks: "EIR-ASAP"

Material:
Site ID: 321907
Operable Unit ID: 974601
Operable Unit: 01
Material ID: 567439
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: -1.00
Units: Pounds
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 321907
Spill Tank Test: 1540671
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: .00
Gross Fail: Not reported
Modified By: Spills
Last Modified: Not reported
Test Method: Unknown

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S105995061 **DIST/DIR:** 0.488 SW **ELEVATION:** 59 **MAP ID:** 98

NAME: FABCO
ADDRESS: 1052 SOUTHERN BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0110464 / 2003-07-07
ID/Status: 207160
ID/Status: 0110464

LTANKS:
Site ID: 207160
Spill Number/Closed Date: 0110464 / 2003-07-07
Spill Date: 2002-01-30
Spill Cause: Tank Overfill
Spill Source: Commercial Vehicle
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SMSANGES
Referred To: Not reported
Reported to Dept: 2002-01-31
CID: 322
Water Affected: Not reported
Spill Notifier: Local Agency
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2002-01-31
Spill Record Last Update: 2003-07-07
Spiller Name: Not reported
Spiller Company: ENTERPRISE COMPANYFABCO
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: (718) 991-9212
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 171938
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND 1/31/02 MR. SINGS FROM FABCO STATED THAT THE SPILL CONSISTED OF A FEW GALLONS OF FUEL OIL ON THE SIDEWALK, DIRT WAS SPREAD ON THE OIL DURING A RAINSTORM CREATING A MUDDY OILY WATER MIX. MR.SINGS ALSO INDICATED THE SPILL CAME FROM THE VENT LINE ON BANCO POPULAR, AND THE TRUCK THAT MADE THE DELIVERY SAID ENTERPRISE TRANSPORTATION ON IT. TIPPLE THEN CALLED BANCO POPULAR (718-589-6668) AND WAS INFORMED THAT THE BANK HAD RETAINED WEXLER BOILER COMPANY TO CLEAN THE SPILL. A REPRESENTATIVE FROM THE 1046 SOUTHERN BLVD. BRANCH OF BANCO POPULAR ASSURED TIPPLE AT 5PM THAT SHE HAD INSPECTED THE SPILL SITE AND THE CLEANUP WAS COMPLETE. "

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S105995061 **DIST/DIR:** 0.488 SW **ELEVATION:** 59 **MAP ID:** 98

NAME: FABCO
ADDRESS: 1052 SOUTHERN BLVD
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0110464 / 2003-07-07
ID/Status: 207160
ID/Status: 0110464

Remarks: "citizen noticed oil company overfill tank - spill to ground and they put dirt down to cover spill area - spill is being washed away today due to rain "

Material:
Site ID: 207160
Operable Unit ID: 847557
Operable Unit: 01
Material ID: 528087
Material Code: 0066A
Material Name: unknown petroleum
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000398780 **DIST/DIR:** 0.488 East **ELEVATION:** 19 **MAP ID:** 99

NAME: APARTMENT - TTF
ADDRESS: 1240 MORRISON AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0301007 / 2003-09-16
ID/Status: 0702940 / 2015-11-17
ID/Status: 73564
ID/Status: 382768
ID/Status: 0301007

LTANKS:
Site ID: 73564
Spill Number/Closed Date: 0301007 / 2003-09-16
Spill Date: 2003-04-29
Spill Cause: Tank Test Failure
Spill Source: Private Dwelling
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: JBVOUGHT
Referred To: Not reported
Reported to Dept: 2003-04-29
CID: 418
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 2003-04-29
Spill Record Last Update: 2003-11-06
Spiller Name: HAROLD
Spiller Company: RIVERSIDE MANAGEMENT
Spiller Address: 1240 MORRISON AVENUE
Spiller City,St,Zip: BRONX, ZZ
Spiller County: 001
Spiller Contact: RENE LEWIS
Spiller Phone: (718) 378-7000
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 69229
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 5/6/03 - ROSSAN, DDO - Tank test Failure letter prepared and sent to Mr. Michael Mansueto BSR Management Corp 495 Broadway, 6th FL New York, NY 10012 END 9/10/2003-Vought-Underground Storage Tank Investigation Report-7/23/03-Specialty Service Contracting (John Skinner-201-941-8292). Tank is a 15000-gallon heating oil UST. Tank was isolated from piping and individual components were tested. Tank was excavated and loose connections included dipstick, petrometer, supply and return lines. Impacted soil was removed. 22.78 tons of impacted soil was removed from the site. Six endpoint soil samples

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000398780 **DIST/DIR:** 0.488 East **ELEVATION:** 19 **MAP ID:** 99

NAME: APARTMENT - TTF
ADDRESS: 1240 MORRISON AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0301007 / 2003-09-16
ID/Status: 0702940 / 2015-11-17
ID/Status: 73564
ID/Status: 382768
ID/Status: 0301007

were collected for analysis and showed concentrations of PAH's exceeding TAGM (benzo(a)anthracene, chrysene, benzo(b,k)fluornathene and benzo(a)pyrene). Looose connections were replaced and tank system was retested. Tank passed tank system test. Disposal manifest, analyticals and site plan provided to NYSDEC. PAH exceedances due to ubiquitous fill material. Spill closed by Vought. NFA sent 9/17/03."
Remarks: "dry leak failure for an underground service tank in an apartment complex"

Material:
Site ID: 73564
Operable Unit ID: 867484
Operable Unit: 01
Material ID: 509070
Material Code: 0003A
Material Name: #6 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site ID: 382768
Spill Number/Closed Date: 0702940 / 2015-11-17
Spill Date: 2007-06-11
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: HRPATEL
Referred To: Not reported
Reported to Dept: 2007-06-11
CID: 408
Water Affected: Not reported
Spill Notifier: Tank Tester

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000398780 **DIST/DIR:** 0.488 East **ELEVATION:** 19 **MAP ID:** 99

NAME: APARTMENT - TTF
ADDRESS: 1240 MORRISON AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0301007 / 2003-09-16
ID/Status: 0702940 / 2015-11-17
ID/Status: 73564
ID/Status: 382768
ID/Status: 0301007

Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: Not reported
Remediation Phase: 0
Date Entered In Computer: 2007-06-11
Spill Record Last Update: 2015-11-17
Spiller Name: BSR MANAGMENT
Spiller Company: APARTMENT
Spiller Address: 1240 MORRISON AVE
Spiller City,St,Zip: BRONX, NY 10472
Spiller County: 001
Spiller Contact: BSR MANAGMENT
Spiller Phone: (212) 941-9500
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 332215
DEC Memo: "6/11/07 Called BSR Management (contact on FIR) and they no longer service this building. New manager is Stellar Management (212)843-3767. Called Stellar and left message. bf 6/12/07 Received message from Stacy of Stellar Management (212)624-6703. Returning my call. Received call from Stewart Schwartz of S&S Energy. cell: (631)926-2196 office: (631)691-1700. S&S is the contractor for the tank test and repairs. bf 6/13/07 Received message from S. Schwartz. i was out of office. bf 6/14/07 Called S. Schwartz. They plan on excavating and isolating parts of system. If failure again they will install temporary tank and then sample. If necessary, they will close tank. He will send me a letter describing their plan. He requested a copy of spill report for 0301007. A closed ttf at the same site. I faxed it to him. Fax:(631)691-1711. Sent ttf letter to Stellar's engineer: Smajlje Srdanovic Stellar Management 156 William Street New York, NY 10038 Also faxed ttf letter to S. Schwartz. bf 6/19/07 Received phone call from Mr. Srdanovic. He plans on closing tank and installing new tank. Will sample if tank to be closed in place and or will remove tank and sample if contamination is found. bf 7/10/07 Received message from Stacy Rigieri of Star Management. Ph. (212)624-6703. She has a letter from Cardinal tank explaining what work will be done and she wants to fax it to me. bf 7/11/07 Called S. Rigieri and left message with fax number. bf 7/24/07 On 6/16/07, received letter from S. Ruggieri of Stellar. Cardinal Tank and Boiler was hired to remedy the situation. Proposal was attached to letter. Tank was a wet leak and will be emptied immediately. Will install temporary tank. bf 8/17/12 Spill re-assigned to T. Demeo as per RSE. bf 2/12/15 TJD Spill reassigned from DeMeo to Patel 02/19/15-Hiralkumar Patel. alternate address: 1222-1242 Morrison Ave PBS #: 2-091782. as per PBS record, the site has one (1) 15,000 gal

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000398780 **DIST/DIR:** 0.488 East **ELEVATION:** 19 **MAP ID:** 99

NAME: APARTMENT - TTF

ADDRESS: 1240 MORRISON AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0301007 / 2003-09-16
ID/Status: 0702940 / 2015-11-17
ID/Status: 73564
ID/Status: 382768
ID/Status: 0301007

#2 oil AST in subterranean vault, in-service, installed in Dec. 1968. other spill #: 9313718, 0301007 spill # 9313718 was reported on 02/22/1994 due to findings of raw sewage in back yard. case closed. spill # 0301007 was reported on 04/29/2003 due to dry leak in UST. during isolation test, loose pipe connections were found on tank top. 22.78 tons of contaminated soil was removed. after repair, tank system passed the test. case closed. as per a cost estimate from Cardinal Boiler dated 07/09/2007, wet leak was found in 15,000 gal UST. Cardinal Boiler proposed to install a new tank. as per NYC DOB record, a permit was approved on 03/04/2008 for installation of a new 11,500 gal rectangular fuel oil tank. also, a permit was approved on 02/04/2014 for conversion of fuel grade from #6 to #2 fuel oil. based on available information, the site had one 15,000 gal UST which was either closed or removed and a new 11,500 gal AST was installed sometime in 2008. but PBS record shows only one 15,000 gal AST. 03/20/15-Hiralkumar Patel. 9:30 AM:- visited site. met Miguel Mendez, building super. site has 11,500 gal #2 oil square AST on beams, located in secondary room in basement, which was installed in 2008. the 15,000 gal tank is located underground, in backyard, just behind the boiler room wall. Mr. Mendez mentinoed that the UST was cleaned, but never closed. fill ports for the UST and AST are located by the curb along Harrod Ave. fill port for the UST has been sealed. noted three sealed pipes on boiler room wall: two of which were supply lines from UST for two boilers and one was the return line. no signs of oil seepage noted from the area of these closed pipes. PBS record is incorrect. as per the PBS record, the site has one (1) 15,000 gal AST in vault, in-service. but the site has two tanks: one (1) 11,500 gal AST in-service and one (1) 15,000 gal UST out-of-service. PBS record does not include any information about temporary closure of the UST or installation of new AST. ---------- Miguel Mendez **building super** Ph. (917) 662-0483 03/23/15-Hiralkumar Patel. 10:50 AM:- spoke with Katina Vazquez at Stellar Management. she works with Mr. Jimenez, property manager. informed Ms. Vazquez regarding open spill case, incorrect PBS record and unregistered tank system. informed her that the department requires investigation/cleanup of any petroleum release from the UST system (including remote fill line) and PBS correction. Stellar Morrison LLC. **property owner** c/o Stellar Management 156 William Street, 10th floor New York, NY 10038 Attn.: Eduardo Jimenez **property manager** Ph. (212) 406-0030 Ext. 12 (347) 672-3064 email: ejimenez@stellarmanagement.com Katina Vazquez Stellar Management PH. (212) 843-3783 email: kvazquez@stellarmanagement.com 12:55 PM:- sent letter to Mr. Jimenez requiring submission of report (including investigation of tank system failure and cleanup of any associated contamination) and PBS application (reflecting correct information

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000398780 **DIST/DIR:** 0.488 East **ELEVATION:** 19 **MAP ID:** 99

NAME: APARTMENT - TTF

ADDRESS: 1240 MORRISON AVE
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0301007 / 2003-09-16
ID/Status: 0702940 / 2015-11-17
ID/Status: 73564
ID/Status: 382768
ID/Status: 0301007

and status). asked Mr. Jimenez to submit PBS application immediately and spill investigation/cleanup report by the end of 05/29/15. informed Mr. Jimenez that the case will be referred for enforcement, if required documents are not received by 05/29/15. 04/27/15-Hiralkumar Patel. received message for Greg Collins (at 12:45 PM on 04/24/15). Greg Collins GC Environmental PH. (631) 206-3700 Ext. 111 email: gc@gcenvironmental.com 10:30 AM:- spoke with Greg. GC Env. has been retained to conduct required investigation. informed Greg that as per cost estimate in 2007, the tank system had failed in wet portion. based on available information, the department requires subsurface investigation underneath the tank and and along the remote fill line. Greg will submit a work plan. 11:49 AM:- received email from Greg including work plan. he proposed to clean the tank, collect soil samples from below the tank and test the remote fill line. 12:42 PM:- sent email to Greg approving the proposed work plan. informed him that prior to tank abandonment, the department may require additional investigation/remediation. email copied to Mr. Jimenez and Ms. Vazquez. 05/28/15-Hiralkumar Patel. 12:23 PM:- received call from Greg. today, they cut hole in tank bottom for subsurface sampling and groundwater started coming in. due to groundwater right underneath the tank, Greg proposed to collect soil samples via geoprobe (3 borings: one at each end and one on side away from the building wall) around the tank. he will also test the remote fill line. 07/21/15-Hiralkumar Patel. 8:51 PM:- received email from Greg including investigation report. abstract: - during tank abandonment activity (after cutting the second hole on the tank), observed an unknown amount of water entering into the tank - on 06/22/15, six soil borings (SB-1 through SB-6) were advanced around the UST, to a depth of approx. 12 ft bg - groundwater was encountered at a depth of 4 ft bg around the tank location - during the sampling, visual or olfactory signs of contamination were found in SB-3 and SB-4 at 8-12 ft interval - no visual or olfactory contamination found in borings SB-1, SB-2, SB-5 and SB-6 - found light to dark brown coarse sand with rocks in all borings - soil samples were collected from each boring from a depth of 8 to 12 ft bg; except SB-1 where sample was collected from 4 to 8 ft bg - found some SVOC contamination (max: 2,900 ppb Fluoranthene) in endpoint samples, but no VOC contamination 07/24/15-Hiralkumar Patel. 3:16 PM:- sent email to Greg and asked him about fill line investigation result and update of PBS registration. email copied to Mr. Jimenez and Ms. Vazquez. 3:54 PM:- received email from Greg inquiring about comments on investigation report. he mentioned that upon approval, they will dig up the tank end of the fill line and will test it. 07/31/15-Hiralkumar Patel. 1:49 PM:- left message for (and sent email at 1:52 PM to) Greg and informed him that based on available

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000398780 **DIST/DIR:** 0.488 East **ELEVATION:** 19 **MAP ID:** 99

NAME: APARTMENT - TTF
ADDRESS: 1240 MORRISON AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0301007 / 2003-09-16
ID/Status: 0702940 / 2015-11-17
ID/Status: 73564
ID/Status: 382768
ID/Status: 0301007

information, the department approves permanent closure of the underground tank. also informed him that a subsurface investigation may be required along the remote fill line for the underground tank, if the fill line fails a tightness test. also asked him to update the PBS record. 09/21/15-Hiralkumar Patel. 1:55 PM:- received call from Greg. he tested the remote fill line which failed. based on available information, asked Greg to conduct either further investigation and remediation (if needed) along the remote fill line or remove the line along with any associated contamination. he will call back with plan. 10/30/15-Hiralkumar Patel. 11:53 AM:- left message for Greg. 12:52 PM:- received call from Greg. they removed the remote fill line and found contamination under the sidewalk. they removed the contaminated material and collected endpoint samples yesterday. will submit report once sample results are available. 11/06/15-Hiralkumar Patel. 9:11 AM:- received message from Greg Collins from GC Env. 11:23 AM:- spoke with Greg. he mentioned that they removed contamination from under the sidewalk from the area of 3 ft by 3 ft to a depth of 4 ft bg. one endpoint sample and one waste characterization sample were collected for analysis. Greg mentioned that surprisingly no contamination noted in the waster characterization sample which was collected from dark soil removed from excavation and some SVOC contamination noted in endpoint sample. he believes samples were switched in lab. received email from Greg including lab report and pics of impacted soil and endpoint soil sample. reviewed samples results. found some SVOC contamination (max. 9,200 ppb Phenanthrene) in endpoint sample. Greg will send site update with more pics. the excavation has been backfilled and cemented. 11/17/15-Hiralkumar Patel. received email from Greg (at 3:20 PM on 11/14/15) including closure report. case closed based on available information. 11:18 AM:- sent email to Greg and reminded him to submit updated PBS application. 11:55 AM:- sent spill closure letter to Mr. Jimenez. letter emailed to Mr. Jimenez and Greg. informed Mr. Jimenez that the PBS record must be corrected with updated information about both tank systems at the site."
Remarks: "PBS No: 2-091782 NONE;"

Material:
Site ID: 382768
Operable Unit ID: 1140151
Operable Unit: 01
Material ID: 2130199
Material Code: 0003A
Material Name: #6 fuel oil
Case No.: Not reported
Material FA: Petroleum

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: U000398780 **DIST/DIR:** 0.488 East **ELEVATION:** 19 **MAP ID:** 99

NAME: APARTMENT - TTF
ADDRESS: 1240 MORRISON AVE
BRONX, NY
BRONX
SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0301007 / 2003-09-16
ID/Status: 0702940 / 2015-11-17
ID/Status: 73564
ID/Status: 382768
ID/Status: 0301007

Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 382768
Spill Tank Test: 1550905
Tank Number: 1
Tank Size: 15000
Test Method: 03
Leak Rate: .00
Gross Fail: Not reported
Modified By: Watchdog
Last Modified: Not reported
Test Method: Horner EZ Check I or II

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S105995489 **DIST/DIR:** 0.495 North **ELEVATION:** 72 **MAP ID:** 100

NAME: 1797 VYSE AVE

ADDRESS: 1797 VYSE AV
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0112238 / 2006-03-06
ID/Status: 316178
ID/Status: 0112238

LTANKS:
Site ID: 316178
Spill Number/Closed Date: 0112238 / 2006-03-06
Spill Date: 2002-03-28
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 0301
Investigator: SLBENJAM
Referred To: Not reported
Reported to Dept: 2002-03-28
CID: 365
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 2002-03-28
Spill Record Last Update: 2006-03-06
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: 1797 VYSE AV
Spiller City,St,Zip: BRONX, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 254896
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL 12/2/2003 Transferred from Sangesland to Rommel PM changed to S. Benjamin on 6/15/2005. Groundwater was sampled on October 25, 2005 and analyzed for VOCs and SVOCs. The results did not indicate the presence of any of these compunds. Spill closed."
Remarks: "they found contaminated soil during a tank removal - they will excavated the soil"

Material:
Site ID: 316178
Operable Unit ID: 851041

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Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S105995489 **DIST/DIR:** 0.495 North **ELEVATION:** 72 **MAP ID:** 100

NAME: 1797 VYSE AVE

ADDRESS: 1797 VYSE AV
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 0112238 / 2006-03-06
ID/Status: 316178
ID/Status: 0112238

Operable Unit: 01
Material ID: 526248
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S101341219 **DIST/DIR:** 0.498 ENE **ELEVATION:** 23 **MAP ID:** 101

NAME: 1605 E 174TH ST

ADDRESS: 1605 E 174TH ST
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9112455 / 1992-03-06
ID/Status: 198463
ID/Status: 9112455

LTANKS:
Site ID: 198463
Spill Number/Closed Date: 9112455 / 1992-03-06
Spill Date: 1992-03-06
Spill Cause: Tank Overfill
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Not reported
Cleanup Ceased: 1992-03-06
Cleanup Meets Standard: True
SWIS: 0301
Investigator: KSTANG
Referred To: Not reported
Reported to Dept: 1992-03-06
CID: Not reported
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1992-03-11
Spill Record Last Update: 2004-09-30
Spiller Name: Not reported
Spiller Company: NYCHA/BX RIVER HOUSES
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 165175
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was TANG "
Remarks: "WINSTON DISPOSED SORBENT & EXCAVATED SOIL."

Material:
Site ID: 198463
Operable Unit ID: 962786
Operable Unit: 01
Material ID: 417430
Material Code: 0002A
Material Name: #4 fuel oil
Case No.: Not reported

- Continued on next page -

Site Detail Report

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

LTANKS

EDR ID: S101341219 **DIST/DIR:** 0.498 ENE **ELEVATION:** 23 **MAP ID:** 101

NAME: 1605 E 174TH ST

ADDRESS: 1605 E 174TH ST
BRONX, NY
BRONX

SOURCE: NY Department of Environmental Conservation

Rev: 02/06/2017
ID/Status: 9112455 / 1992-03-06
ID/Status: 198463
ID/Status: 9112455

Material FA: Petroleum
Quantity: 30.00
Units: Gallons
Recovered: .00
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:

Database Descriptions

NPL: NPL National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices. NPL - National Priority List Proposed NPL - Proposed National Priority List Sites.

NPL Delisted: Delisted NPL The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Delisted NPL - National Priority List Deletions

CERCLIS: SEMS SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL. SEMS - Superfund Enterprise Management System

NFRAP: SEMS-ARCHIVE SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site. SEMS-ARCHIVE - Superfund Enterprise Management System Archive

RCRA COR ACT: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - Corrective Action Report

RCRA TSD: RCRA-TSDF RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste. RCRA-TSDF - RCRA - Treatment, Storage and Disposal

RCRA GEN: RCRA-LQG RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. RCRA-LQG - RCRA - Large Quantity Generators RCRA-SQG - RCRA - Small Quantity Generators. RCRA-CESQG - RCRA - Conditionally Exempt Small Quantity Generators.

Federal IC / EC: US ENG CONTROLS A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. US ENG CONTROLS - Engineering Controls Sites List US INST CONTROL - Sites with Institutional Controls.

Database Descriptions

ERNS: ERNS Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances. ERNS - Emergency Response Notification System

State/Tribal CERCLIS: SHWS Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites SHWS - Inactive Hazardous Waste Disposal Sites in New York State

State/Tribal SWL: SWF/LF Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites. SWF/LF - Facility Register

State/Tribal LTANKS: LTANKS Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. LTANKS - Spills Information Database HIST LTANKS - Listing of Leaking Storage Tanks.

State/Tribal Tanks: UST Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. UST - Petroleum Bulk Storage (PBS) Database CBS UST - Chemical Bulk Storage Database. MOSF UST - Major Oil Storage Facilities Database. CBS - Chemical Bulk Storage Site Listing. MOSF - Major Oil Storage Facility Site Listing. AST - Petroleum Bulk Storage. CBS AST - Chemical Bulk Storage Database. MOSF AST - Major Oil Storage Facilities Database. TANKS NASSAU - Registered Tank Database in Nassau County. TANKS - Storage Tank Faciliy Listing.

State/Tribal IC / EC: ENV RES DECL RES DECL - Restrictive Declarations Listing. The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution. RES DECL - Environmental Restrictive Declarations ENG CONTROLS - Registry of Engineering Controls. INST CONTROL - Registry of Institutional Controls.

State/Tribal VCP: VCP New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites. VCP - Voluntary Cleanup Agreements

ST/Tribal Brownfields: BROWNFIELDS A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant. BROWNFIELDS - Brownfields Site List ERP - Environmental Restoration Program Listing.

US Brownfields: US BROWNFIELDS Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs. US BROWNFIELDS - A Listing of Brownfields Sites

Database Descriptions

Other Haz Sites: US CDL A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. US CDL - Clandestine Drug Labs

Other Tanks: CORTLAND CO. UST A listing of underground storage tank sites located in Cortland County. CORTLAND CO. UST - Cortland County Storage Tank Listing WESTCHESTER CO. UST - Listing of Storage Tanks. NASSAU CO. UST - Registered Tank Database. ROCKLAND CO. UST - Petroleum Bulk Storage Database. SUFFOLK CO. UST - Storage Tank Database. NCFM UST - Storage Tank Database. HIST UST - Historical Petroleum Bulk Storage Database. CORTLAND CO. AST - Cortland County Storage Tank Listing. WESTCHESTER CO. AST - Listing of Storage Tanks. NASSAU CO. AST - Registered Tank Database. ROCKLAND CO. AST - Petroleum Bulk Storage Database. SUFFOLK CO. AST - Storage Tank Database. NCFM AST - Storage Tank Database. HIST AST - Historical Petroleum Bulk Storage Database.

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System SPILLS - Spills Information Database. HIST SPILLS - SPILLS Database. SPILLS 90 - SPILLS90 data from FirstSearch. SPILLS 80 - SPILLS80 data from FirstSearch.

Other: RCRA NonGen / NLR RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste. RCRA NonGen / NLR - RCRA - Non Generators / No Longer Regulated FEDLAND - Federal and Indian Lands. TSCA - Toxic Substances Control Act. TRIS - Toxic Chemical Release Inventory System. SSTS - Section 7 Tracking Systems. RAATS - RCRA Administrative Action Tracking System. PRP - Potentially Responsible Parties. PADS - PCB Activity Database System. ICIS - Integrated Compliance Information System. FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). MLTS - Material Licensing Tracking System. RADINFO - Radiation Information Database. BRS - Biennial Reporting System. INDIAN RESERV - Indian Reservations. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS). US AIRS MINOR - Air Facility System Data. FINDS - Facility Index System/Facility Registry System. DRYCLEANERS - Registered Drycleaners. HSWDS - Hazardous Substance Waste Disposal Site Inventory. NY MANIFEST - Facility and Manifest Data. SPDES - State Pollutant Discharge Elimination System.

Database Sources

NPL: EPA

Updated Quarterly

NPL Delisted: EPA

Updated Quarterly

CERCLIS: EPA

Updated Quarterly

NFRAP: EPA

Updated Quarterly

RCRA COR ACT: EPA

Updated Quarterly

RCRA TSD: Environmental Protection Agency

Updated Quarterly

RCRA GEN: Environmental Protection Agency

Updated Quarterly

Federal IC / EC: Environmental Protection Agency

Varies

ERNS: National Response Center, United States Coast Guard

Updated Annually

State/Tribal CERCLIS: Department of Environmental Conservation

Updated Annually

State/Tribal SWL: Department of Environmental Conservation

Updated Semi-Annually

State/Tribal LTANKS: Department of Environmental Conservation

Varies

State/Tribal Tanks: Department of Environmental Conservation

No Update Planned

Database Sources

State/Tribal IC / EC: New York City Department of City Planning

Varies

State/Tribal VCP: Department of Environmental Conservation

Updated Semi-Annually

ST/Tribal Brownfields: Department of Environmental Conservation

Updated Semi-Annually

US Brownfields: Environmental Protection Agency

Updated Semi-Annually

Other Haz Sites: Drug Enforcement Administration

Updated Quarterly

Other Tanks: Cortland County Health Department

Updated Quarterly

Spills: U.S. Department of Transportation

Updated Annually

Other: Environmental Protection Agency

Varies

Street Name Report for Streets near the Target Property

Target Property: 1480 SHERIDAN EXPRESSWAY
BRONX, NY 10459

JOB: NA

Street Name	Dist/Dir	Street Name	Dist/Dir
Boone Ave	0.09 West		
Bronx River Ave	0.12 ESE		
Bryant Ave	0.21 WNW		
Close Ave	0.14 SE		
Colgate Ave	0.12 East		
E 172nd St	0.17 NE		
Evergreen Ave	0.17 East		
Freeman St	0.13 SW		
Home St	0.18 SW		
I-895 N	0.04 West		
I-895 S	0.04 West		
Jennings St	0.07 NW		
Longfellow Ave	0.16 WNW		
Sheridan Expy	0.03 West		
W Farms Rd	0.07 NW		
Westchester Ave	0.12 South		
Wheeler Ave	0.22 East		
Whitlock Ave	0.17 SSW		

Environmental FirstSearch

0.500 Mile Radius

ASTM MAP: NPL, RCRACOR, STATES Sites

1480 SHERIDAN EXPRESSWAY BRONX, NY 10459



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 40.829899 Longitude: 73.884697)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

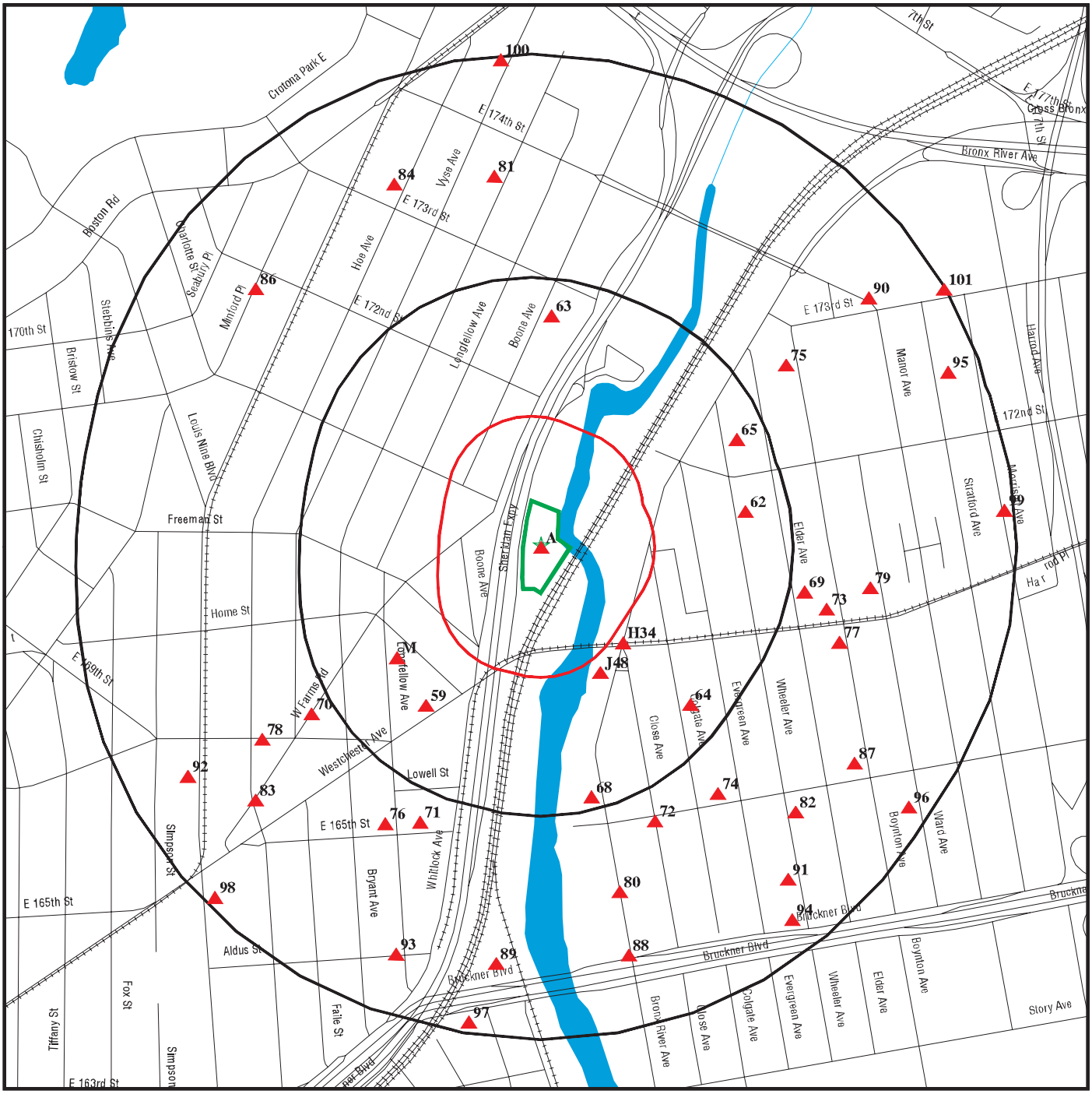
EDR Reference Code (EDR internal use only): 4926771.2s
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17-05-04.10:15:05.Thu

Environmental FirstSearch

0.500 Mile Radius

ASTM MAP: CERCLIS, RCRATSD, LUST, SWL

1480 SHERIDAN EXPRESSWAY BRONX, NY 10459



Black Rings Represent Qtr. Mile Radius; **Red Ring Represents 500 ft. Radius**

★ **Target Property (Latitude: 40.829899 Longitude: 73.884697)**

▲ **Identified Sites**

National Priority List Sites

Indian Reservations BIA

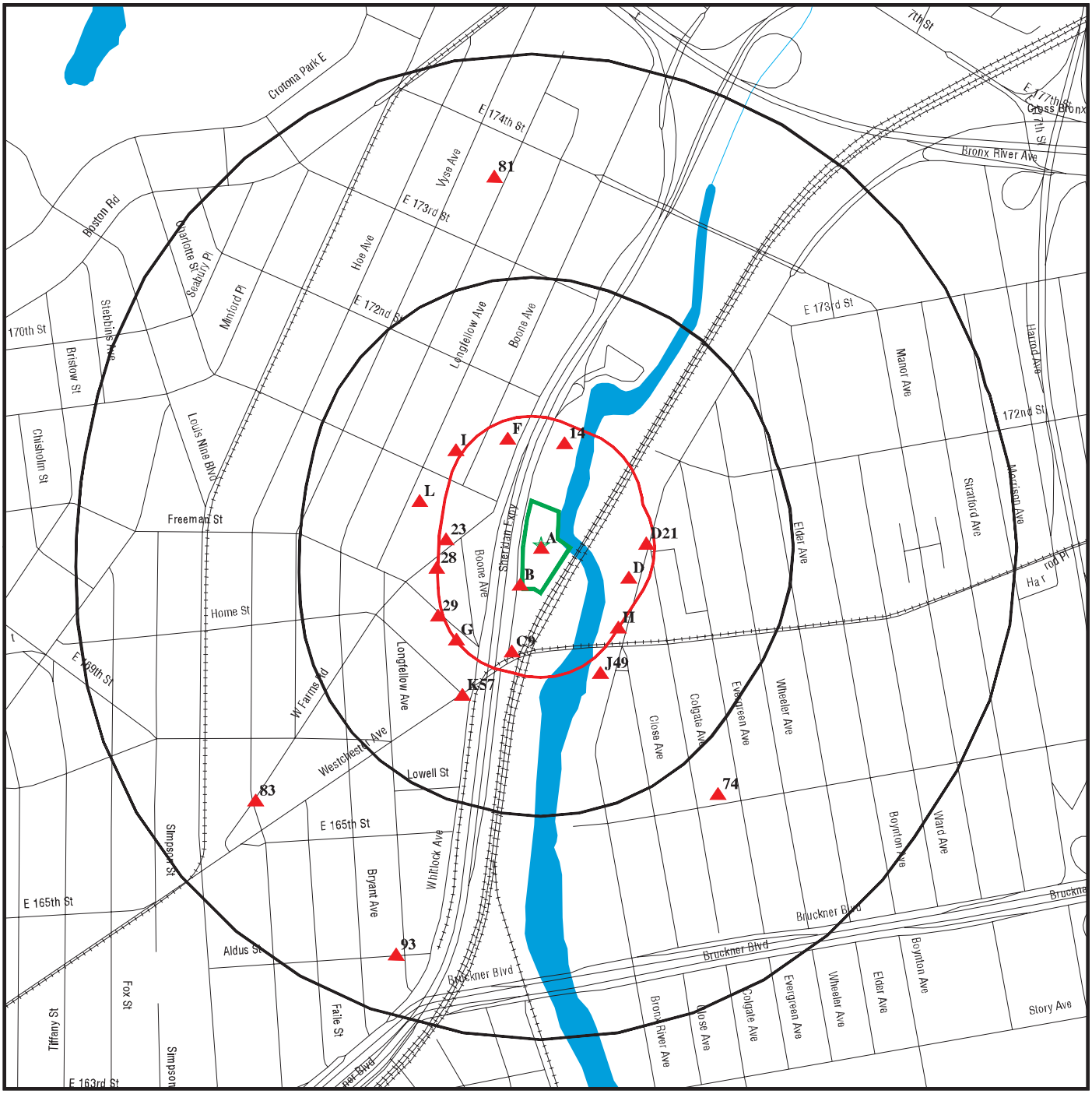
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Environmental FirstSearch

0.500 Mile Radius

ASTM MAP: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

1480 SHERIDAN EXPRESSWAY BRONX, NY 10459



Black Rings Represent Qtr. Mile Radius; **Red Ring Represents 500 ft. Radius**

★ **Target Property (Latitude: 40.829899 Longitude: 73.884697)**

▲ **Identified Sites**

National Priority List Sites

Indian Reservations BIA

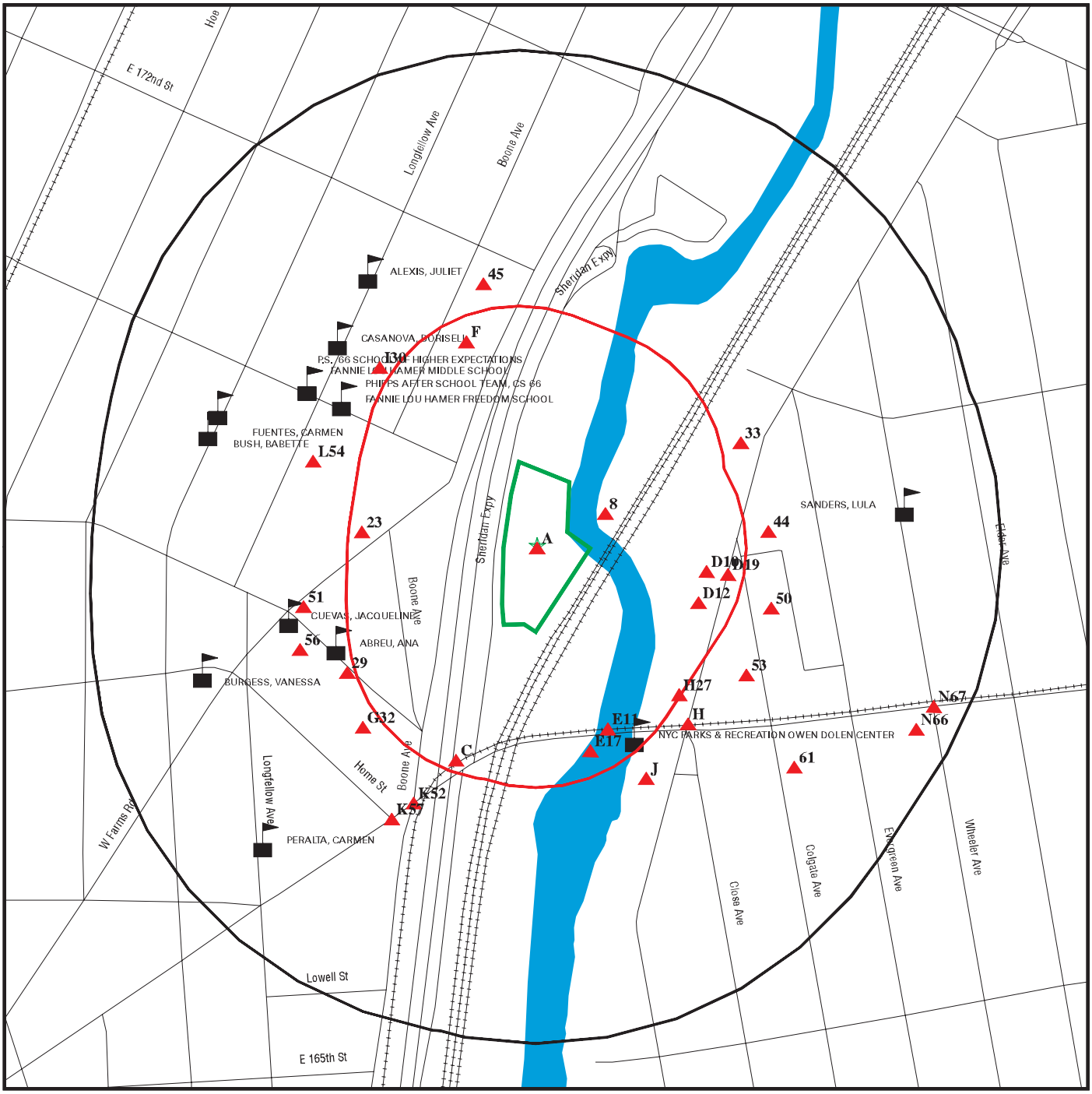
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Environmental FirstSearch

0.25 Mile Radius

Non ASTM Map, Spills, FINDS

1480 SHERIDAN EXPRESSWAY BRONX, NY 10459



Black Rings Represent Qtr. Mile Radius; **Red Ring Represents 500 ft. Radius**

★ **Target Property (Latitude: 40.829899 Longitude: 73.884697)**

▲ **Identified Sites**

Sensitive Receptors

National Priority List Sites

Indian Reservations BIA

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APPENDIX B

HEALTH AND SAFETY PLAN

HEALTH AND SAFETY PLAN

FOR

1480 SHERIDAN BOULEVARD
BRONX, NEW YORK
Bronx Borough/County Tax Map
Block 3017, Lot 30

Prepared for

L+M Development Partners
1865 Palmer Avenue, Floor 2
Larchmont, New York

Prepared by:

Langan Engineering, Environmental, Surveying
Landscape Architecture and Geology
368 Ninth Avenue, 8th Floor
New York, New York 10001

LANGAN

June 2026
Langan Project No. 170970901

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***** Items to be posted prominently on-site or made readily available to personnel.

1.0 INTRODUCTION

1.1 General

This HEALTH AND SAFETY PLAN (HASP) was developed to address disturbance of known and reasonably anticipated subsurface contaminants and comply with Occupational Safety and Health Administration (OSHA) Standard 29 Code of Federal Regulation (CFR) 1910.120(b)(4), Hazardous Waste Operations and Emergency Response during anticipated site work for project identified as 1480 Sheridan Boulevard – Southern Lot, location at 1480 Sheridan Boulevard in the Longwood neighborhood of the Bronx in New York City (the "Site"). The site is identified on Bronx Borough/County Tax Map as Block 3017, Lot 30.

This HASP provides the minimum requirements for implementing site operations during future remedial measures. All contractors performing work on this site must implement their own HASP that, at a minimum, adheres to this HASP. The contractor is responsible for their own health and safety and that of their subcontractors. Langan personnel will implement this HASP while onsite.

The content of this HASP may change or undergo revision based upon additional information made available to health and safety personnel, monitoring results, or changes in the work plan.

1.2 Site Location and Background

The 1480 Sheridan Expressway – Southern Lot was historically used for industrial and commercial purposes and operated for a variety of businesses since the late 1890s, including as an automotive repair and demolition facility, concrete slab manufacturing facility, iron yard, coal and lumber yard, and a railway company. 1480 Sheridan Expressway is currently a mixed-use lot, predominantly used as a long- and short-term parking yard, with several open garage spaces and an office area. A site location map is provided as Figure 1.

1.3 Summary of Work Tasks

1.3.1 Geophysical Investigation - Underground Utility Clearance Policy

Prior to the commencement of intrusive field activities (i.e., all soil boreholes, test pits, or excavations); Langan field engineers will follow the Langan Underground Utility Clearance Policy including the retaining one or more geophysical consultants, if required, to conduct geophysical surveys using ground penetrating radar (GPR) and electromagnetic detection equipment. The application of the Langan Underground Utility Clearance policy is mandatory unless a site wide or a specific location exemption has been granted in writing by the principal-in-charge (PIC).

The objective of a geophysical survey is to identify any underground storage tank (UST) structures, drains, underground utilities, and other subsurface anomalies that may be encountered during an intrusive investigation. Langan personnel will observe the geophysical survey of each location and confirm the locations are both accessible and free of potential utility or other known or suspected subsurface structures. There will be no exemption to this section unless granted by written approval by the PIC.

1.3.2 "Soft-Dig" Clearance of Borehole Locations

In accordance with Langan's Underground Utility Clearance Policy, Langan will instruct the drilling or excavation contractor to "Soft-Dig" each target soil boring, test pit, or excavation location as specified in Section 1.3.1. Soft dig is defined as using a vacuum system (with or without an air knife) or hand auger to clear soil from the proposed soil boring location to a depth of 5-feet. When excavating a test pit or larger excavation, the exaction contractor will "peal" away thin layers of soil with their excavator or shovel to daylight potential underground structures until achieving the required 5-feet depth. If using an excavator, the contractor must have a worker observing the excavator bucket/shovel warning the operator when the bucket/shovel encounters a possible underground structure. At which point, the potential structure must be hand shoveled until it is fully daylighted. Langan personnel will confirm that the "soft dig" activities are completed to these specifications.

1.3.3 Day Lighting Excavation and Soil Screening

Langan may retain one or more excavation contractors to daylight buried unidentified structures. The purpose of the daylighting is to confirm if these structures are subsurface structures of concern including USTs, utilities sewer lines, storm water drains, electrical, gas or other utility line as well as other artifacts pertinent to the work plan. The excavation contractors will contact the appropriate utility mark-out authority and make available to their staff the verification number and effective dates.

The excavation contractor will employ "soft dig" methods as defined in Section 1.3.2. Langan may screen excavated soil for visual, olfactory, and instrumental indicators suggestive of a potential chemical or petroleum release. Instrument screening for the presence of volatile organic compounds (VOC) may be performed with a duly calibrated photoionization detector (PID). Contractors will notify Langan personnel if they identify indications suggestive of a potential chemical or petroleum release. Contaminated material shall be handled, and property disposed in accordance with federal, state and city regulations, criteria, and guidelines.

1.3.4 Soil Investigation and Sampling

Langan may retain a drilling contractor to advance soil boreholes to a depth below grade surface (bgs) specified in the work plan. Borings will be installed at the approximate locations indicated in Langan's work plan but may be moved in the field based on utility clearance and accessibility. The drilling contractor will contact the appropriate utility mark-out authority and make available to their drilling staff the verification number and effective dates. Langan will record the verification number and effective dates from the drillers. Langan will also note the location of marked out utilities on the site plan and scan the data into the project folder.

Langan personnel will screen soil for visual, olfactory, and instrumental indicators suggestive of a potential petroleum release. Instrument screening for the presence of VOC may be performed with a duly field calibrated PID (or equivalent). Langan personnel will collect soil samples from the proposed locations following the sampling plan outlined in the work plan. The borings will be filled with clean soil cuttings, clean sand or bentonite grout and capped at grade to match the surrounding surface after samples are collected.

Soil samples will be submitted to a specific lab per the work plan or to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory and analyzed in accordance with work plan specifications.

1.3.5 Groundwater Investigation and Sampling

Langan may complete a groundwater investigation. Langan may sample existing monitoring wells, or those soil investigation borings converted into groundwater monitoring wells. Groundwater samples will be collected from one or more of the new and if available, pre-existing monitoring wells in accordance with the Langan Low Flow Groundwater Sampling SOP (SOP #12). Groundwater samples will be submitted to an approved laboratory and analyzed for constituents as specified in the work plan. Temporary monitoring wells will be plugged and abandoned during the investigation in the manner defined in the work plan. Permanent monitoring wells will be completed with a road box set in concrete. Permanent monitoring wells will be eventually backfilled and abandoned in accordance with State and Local regulations.

Groundwater samples will be submitted to a NYSDOH ELAP-certified laboratory and analyzed in accordance with work plan specifications.

1.3.6 Groundwater/Product Gauging

Langan may gauge one or more of the observation/monitoring wells to collect synoptic head data or determine the presence of product. When gauging, Langan may also survey head

space VOCs within the well using a duly calibrated PID. When collected, gauging data will be based on the northernmost point at top of casing (TOC) using an interface probe (IP) capable of determining the presence of free product in the monitoring well as light non-aqueous phase liquid (LNAPL) at the top of the water column. If gauging for dense non-aqueous phase liquid (DNAPL) at the base of the monitoring well, the IP may not be appropriate. The field engineer will coordinate with the project team to devise an alternative method to gauge the thickness of DNAPL at base of the well. Langan will decontaminate gauging equipment between wells as required by the work plan.

1.3.7 Product Bailing

If free product is observed in any of the monitoring wells, Langan may bail or contract a 3rd part to remove free product from on-site monitoring wells as part of the work plan. Langan or its contractor may use a dedicated bailer or similar device, peristaltic pump or submersible to extract the observed free product. Langan will record the volume of product and groundwater recovered. Recovered free product and groundwater will be drummed and handled in accordance with procedures outlined in the work plan.

1.3.8 Sub Slab or Soil Vapor Point Installation and Sampling

Langan (or its contractor) may install one or more sub-slab or soil vapor points at selected locations. If installed, the sub-slab points will be set at or just below the bottom of the slab in accordance with the work plan. The sub-slab points may be installed using an electric hammer drill to advance small diameter boreholes through the concrete (or equivalent) slab as defined in the work plan. The borings will terminate in and sample from the gravel substrate below the slab. Conditions in the field may require adjustment of sampling locations.

Langan personnel (or contractor) may install VaporPin® vapor points (or equivalent) in accordance with the manufacturer's instructions. If no point is used, Langan (or contractor) will set a sampling tube defined as an open-ended Teflon™-lined polyethylene tubing (or equivalent tubing as approved by the project manager [PM]). The sampling tube will be set either within the base of the concrete slab or within the support gravel underlying the slab.

When using the VaporPin® or equivalent, the installation sleeve will provide the necessary annulus seal required for subsequent sampling. However, if a sampling tube as defined above is used, the annulus at the top of the concrete slab will be filled with bentonite or food grade clay to seal the slab. A sand pack is not required for sub-slab vapor sampling. Unless specified by the work plan, the sub slab points are temporary and will be pulled after the sampling event and the hole will be patched at grade with material like the surrounding surface.

Langan personnel will confirm that the soil vapor points (implants) are 2-inches in length constructed of polyethylene material and are connected to the surface by Teflon™-line polyethylene material (equivalent materials for the point and tubing are acceptable as approved by the PM). The annulus around the implant will be filled with clean sand to 6-inches above the implant. A 1-foot bentonite slurry will be applied to the top of the sand up to seal the sampling points. The remaining soil vapor point annulus may be backfilled with clean cuttings are sand to grade. Unless specified by the work plan, the vapor points are temporary and will be pulled after the sampling event and the hole will be patched at grade with material like the surrounding surface.

Vapor samples will be collected in accordance with following guidance including Final Guidance for Evaluating Soil Vapor Intrusion published by the New York State Department of Health (NYSDOH) in October 2006, Langan's Sub-Slab Vapor Sampling SOP (SOP #14) and as specified in the work plan. In addition, ambient air and indoor air samples may be collected for use as a comparison sample. As part of the indoor air sampling program, Langan personnel may complete a building inventory inspection. The inspection may take place prior to the commencement of actual field sampling. Vapor samples may be submitted to a NYSDOH ELAP-certified laboratory and analyzed in accordance with work plan specifications.

1.3.9 Observation/Monitoring Well Plugging and Abandonment

While not scheduled, existing observation/monitoring wells may be plugged or abandoned as specified in the work plan. Plugging and abandonment will be in accordance with federal and state requirements. Langan may retain a drilling contractor to complete the plugging and abandonment activities. The contractor will contact the appropriate utility mark-out authority and make available to their field staff the verification number and effective dates. Langan may observe the plugging and abandonment of one or more observation/monitoring wells to document that the plugging and abandonment activities were completed in accordance with the work plan and regulations.

1.3.10 QA/QC Sampling

Samples for quality assurance/quality control [QA/QC] may also be collected and submitted to an approved laboratory and analyzed in accordance with work plan specifications. Information regarding the QA/QC samples including required method of analysis may be included in the same COC as the soil samples unless otherwise instructed by the work plan.

1.3.11 Equipment Decontamination

Before the start of the day's sampling and after sampling each run, sampling equipment will be

decontaminated by the decontamination process outlined Attachment B - Decontamination Procedures. Decontamination waste and purge water will be temporarily stored on site pending analytical results.

1.3.12 Management of Investigative-Derived Waste

The investigative-derived waste (IDW) generated during this investigation will be contained in DOT-approved 55-gallon drums. The drums will be temporarily stored on the site or as directed by the client representative. All drums will be filled between two-thirds full to allow easy maneuvering during drum pickup and disposal. Drum labels are to be provided by Langan (Environmental Closet). All drums will be labeled as "IDW Pending Analysis" until sample data are reported from the laboratory. Drum labels will include date filled and locations where waste was generated along with the standard information required by the labels in accordance with the Langan SOP09, Drum Labeling.

Closed top drums are to be used to store liquids. Debris, including plastic sheeting, polyethylene tubing, personal protection equipment (PPE), decontamination debris, etc. will be segregated from and disposed of in large heavy duty garbage bags and disposed of at the site. Excess unused glassware should be returned to the lab along with the last day of collection samples.

1.3.13 Drum Sampling

Langan personnel may collect drum samples, as required, prior to off-site drum disposal. Samples will be placed into laboratory-supplied batch-certified clean glassware and submitted to an approved laboratory and analyzed in accordance with work plan specifications, if required.

1.3.14 Surveying

Surveying activities may be completed by Langan. Surveying will be conducted by licensed surveyors.

2.0 IDENTIFICATION OF KEY PERSONNEL/HEALTH AND SAFETY PERSONNEL

The following briefly describes the health and safety (H&S) designations and general responsibilities that may be employed for this site. The titles have been established to accommodate the project needs and requirements and ensure the safe conduct of site activities. The H&S personnel requirements for a given work location are based on the proposed site activities.

2.1 Langan Project Manager

The Langan Environmental Project Manager (PM) is Sarah Fernholz, her responsibilities include:

- Ensuring that this HASP is developed, current, and approved prior to on-site activities.
- Ensuring that the tasks in the project are performed in a manner consistent with Langan's comprehensive *Health and Safety Program for Hazardous Waste Operations* and this HASP.

2.2 Langan Corporate Construction Health and Safety Manager

The Langan Corporate Construction Health and Safety Manager is Tony Moffa. His responsibilities include:

- Updating the *Health and Safety Program for Hazardous Waste Operations*.
- Assisting the site Construction Health and Safety Officer (HSO) with the development of the HASP, updating HASP as dictated by changing conditions, job site inspection results, etc., and approving changes to this HASP.
- Assisting the HSO in the implementation of this HASP and conducting Jobsite Safety Inspections and assisting with communication of results and correction of shortcomings found.
- Maintaining records on personnel (medical evaluation results, training and certifications, accident investigation results, etc.).

2.3 Langan Site Health & Safety Officer

The Langan site HSO is William Bohrer. His responsibilities include:

- Participating in the development and implementation of this HASP.
- When on-site, assisting the Langan Field Team Leader in conducting Tailgate Safety Meetings and Jobsite Safety Inspections and correcting any shortcomings in a timely manner.
- Ensuring that proper PPE is available, worn by employees, and properly stored and maintained.
- Controlling entry into and exit from the site contaminated areas or zones.
- Monitoring employees for signs of stress, such as heat stress, fatigue, and cold exposure.
- Monitoring site hazards and conditions.
- Knowing (and ensuring that all site personnel also know) emergency procedures, evacuation routes, and the telephone numbers of the ambulance, local hospital, poison control center, fire department, and police department.

- Resolving conflicts that may arise concerning safety requirements and working conditions.
- Reporting all incidents, injuries, and near misses to the Langan Incident/Injury Hotline immediately and the client representative.

2.4 Langan Field Team Leader Responsibilities

The Langan Field Team Leader (FTL) is to be determined prior to the start of field activities. The Field Team Leader's responsibilities include:

- The management of the day-to-day site activities and implementation of this HASP in the field.
- Participating in and/or conducting Tailgate Safety Meetings and Jobsite Safety Inspections and correcting any shortcomings in a timely manner.
- When a Community Air Monitoring Operating Program (CAMP) is part of the scope, the FTL will set up and maintain community air monitoring activities and instruct the responsible contractor to implement organic vapor or dust mitigation when necessary.

2.5 Contractor Responsibilities

2.5 Contractor Responsibilities

The contractor must develop and implement their own HASP for their employees, their subcontractors, and consultants. The contractor is responsible for their own health and safety and that of their subcontractors. Contractors operating on the site must designate their own FTL, HSO, and Health and Safety Manager (HSM). The contractor's HASP will be at least as stringent as this HASP. The contractor must be familiar with and abide by the requirements outlined in their own HASP. A contractor may elect to adopt Langan's HASP as its own if it has given written notification to Langan, but where Langan's HASP excludes provisions pertinent to the contractor's work (i.e., confined space entry); the contractor must provide written addendums to this HASP. Additionally, the contractor must:

- Ensure their employees are trained in the use of all appropriate PPE for the tasks involved.
- Notify Langan of any hazardous material brought onto the job site or site-related area, the hazards associated with the material and must provide a safety data sheet (SDS) for the material.
- Have knowledge of, understand, and abide by all current federal, state, and local health and safety regulations pertaining to the work.
- Ensure their employees handling hazardous materials, if identified at the Site, have received current training at the appropriate levels of 29 CFR 1910.120, *Hazardous Waste Operations and Emergency Response* (HAZWOPER) if hazardous waste is identified at

the Site,

- Ensure their employees handling hazardous materials, if identified at the Site, have been fit-tested within the year on the type of respirator they will wear.
- Ensure all air monitoring is in place pertaining to the health and safety of their employees as required by OSHA 1910.120; and
- All contractors must adhere to all federal, state, and local regulatory requirements.

3.0 TASK/OPERATION SAFETY AND HEALTH RISK ANALYSES

A Task-Hazard Analysis (Table 1) was completed for general hazards that may be encountered at the Site. The potential contaminants that might be encountered during the field activities and the exposure limits are listed in Table 2. The Safety Data Sheets for each potential contaminant listed in Table 2 are included in Attachment E.

3.1 Specific Task Safety Analysis

3.1.1 Geophysical Survey

Langan personnel are not permitted to operate or otherwise handle geophysical equipment including GPR/electromagnetic detection equipment used for surface utility clearance. When conducting surface utility clearance surveys, the locations of the boreholes, test pits, and other excavations must be fully marked out. In addition, possible detections by the utility clearance contractor of utilities and other artifacts must also be marked out. Markings should include paint, flags, or color tape (when marking indoor locations that the client has specifically requested not be marked with paint). This information must also be added to the site map.

3.1.2 "Soft Dig" Clearance of Borehole Locations

"Soft-Dig" clearance will be completed by the contractors. Langan personnel are not permitted to operate or otherwise handle the contractor's equipment. Langan will update the site map to include the locations of the cleared borehole locations as well as utilities and other artifacts that may interfere with the subsurface investigation.

3.1.3 Daylighting Test Pit

Excavation daylighting must abide by OSHA excavation standards (Part 1926.651) and conform to the Langan Underground Utility Clearance Policy. Daily inspections of excavations, the adjacent areas, and protective systems shall be made by a competent person for evidence of a situation that could result in cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. An inspection shall be conducted by the competent

person prior to the start of work and as needed throughout the shift. Inspections shall also be made after every rainstorm or other hazard increasing occurrence.

No one is to enter an excavation deeper than 5 feet unless the excavation walls are properly sloped in accordance with OSHA regulations. If sampling is required, the sample for excavations deeper than 5 feet without protective systems (sloping) as defined by OSHA are to be collected using suitable mechanical excavation equipment (backhoe or equivalent). When collecting soil samples, Langan will wear chemical resistant gloves in addition to the standard PPE. Langan personnel do not operate excavation equipment. This task is to be completed by an authorized operator approved by the contractor.

3.1.4 Indoor Drilling and Excavation

The work scope may require indoor excavation where there may not be adequate ventilation sufficient to safely operate any rig or excavation equipment powered by an internal combustion engine. Where possible, all such work should be done with equipment powered by electricity. If such equipment is used and must be directly connected to the building's electrical system or to an independent system, this work must be completed by a licensed electrician in accordance with all electrical codes applicable to the work.

Indoor work which is to be completed with equipment powered by an internal combustion engine must incorporate air monitoring for carbon monoxide (CO) using calibrated air monitoring equipment (MultiRAE or equivalent). In addition, the work plan should incorporate mitigation for venting engine exhaust fumes directly to the outdoors and for circulating fresh air into the work area.

The OSHA Time Weighted Average (TWA) Permissible Exposure Limit (PEL) for CO from 50 to 35 parts per million (ppm). Langan will monitor CO with a suitable monitoring device. If CO levels exceed 5 ppm, Langan will instruct contractors to begin mitigation measures. These measures are at a minimum:

- Increase air circulation using industrial size fans to bring additional fresh air into the building or vent exhaust to the outside.
- Modify the passive exhaust method being used to increase venting circulation by using wider diameter tubing or sealing tubing connections; or
- Modify the work schedule where the rig is turned off to allow time for CO levels to fall back to background.

All work must cease if CO levels reach 35 ppm. The Langan engineer is to report to the PM and H&S officer when an action level is reached.

1.3.5 Investigation and Sampling

Sampling groundwater requires the donning of chemical resistant gloves in addition to the standard PPE and cut resistant gloves when cutting sampling-tubing to length. Langan personnel are not to operate drilling equipment nor assemble or install monitoring well equipment. These tasks are to be completed by the driller contractor.

1.3.6 Groundwater/Product Gauging

Gauging products require additional safety considerations including the presence of VOCs and protection of both field cloths and property. Langan will monitor air for VOCs using a duly calibrated PID. Langan will wear protective clothing including Tyvek® over-cloths, as necessary. To protect property, Langan will set a plastic barrier to protect floors or protect landscape and use absorbent pads as necessary to collect pooled separate phase liquid. If sampling for PFAS from the same well, Langan will complete the product check first, if the well can be sampled without including product, Langan will remove the Tyvek® material from the well head vicinity.

3.1.7 Product Recovery Well Bailing

Langan may bail separate phase liquid from monitoring wells. Langan will wear Tyvek™ suits, Tyvek™ boots and chemical resistant gloves in addition to the standard PPE for bailing and cut resistant gloves when cutting sampling-tubing to length. In addition, Langan will place plastic sheeting around the recovery well head to control spillage during product recovery. Langan will also keep on hand and readily available absorbing pads to use as needed.

3.1.8 Electrical Pumps

Langan may use an electric pump to collect separate phase liquid from the recovery wells or to sample groundwater. Langan will inspect the electric pump and control box prior to use and specifically note the condition of the electrical connectors, pump, control box and the electrical cord. The electrical connection must be grounded and connected to the power source using a functional three prong grounded plug. The power source must be a Ground Fault Circuit Interrupter (GFI or GFCI) receptacle.

3.1.9 Vapor Investigation and Sampling

Sampling vapor requires the donning of work gloves in addition to the standard PPE when assembling the Summa™ canister with the regulator and cut resistant gloves when cutting sampling- or silicone-tubing to length. Langan personnel are not to operate contractor equipment

nor assemble or install the contractor vapor point sampling equipment unless instructed by the work plan. When not instructed by the work plan, these tasks are to be completed by the contractor.

3.1.10 Additional Vapor Screening

Langan personnel may prescreen vapor samples for volatile organic compounds (VOCs), methane, hydrogen sulfide and lower explosion limit (LEL) conditions using duly calibrated devices design to screen vapor for these parameters. Langan personnel may also perform atmospheric screening for LEL. Results of the screening may be used in determining which soil vapor samples will be submitted for analysis.

Work activities will immediately cease, and the work area is to be evacuated if the MultiRAE returns a reading of 10% of the LEL (an alarm will sound). Langan personnel will contact the

3.1.11 Plugging and Abandonment of Observation/Monitoring Wells

Langan personnel are not to operate equipment nor assist in the plugging and abandonment of the observation/monitoring wells. These tasks are to be completed by the contractor.

3.1.12 Drum Sampling

Drilling fluid, rinse water, grossly contaminated soil samples, and cuttings will be containerized in 55-gallon drums for disposal off-site. Each drum must be labeled in accordance with the Langan Drum Labeling Standard Operating Procedure (SOP09). Sampling drums requires the donning of work gloves when opening the drums and chemical resistant gloves when sampling in addition to standard PPE.

3.2 Radiation Hazards

No radiation hazards are known or expected at the site.

3.3 Physical Hazards

Physical hazards, which may be encountered during site operations for this project, are detailed in Table 1.

3.3.1 Explosion

No explosion hazards are expected for the scope of work at this site.

3.3.2 Heat Stress

The use of Level C protective equipment, or greater, may create heat stress. Monitoring of personnel wearing personal protective clothing should commence when the ambient temperature is 72°F or above. Table 6 presents the suggested frequency for such monitoring. Monitoring frequency should increase as ambient temperature increases or as slow recovery rates are observed. Refer to Table 7 to assist in assessing when the risk for heat-related illness is likely. To use this table, the ambient temperature and relative humidity must be obtained (a regional weather report should suffice). Heat stress monitoring should be performed by the HSO or the FTL, who must be able to recognize symptoms related to heat stress.

To monitor the workers, be familiar with the following heat-related disorders and their symptoms:

- **Heat Cramps: Painful** spasms of arm, leg, or abdominal muscles, during or after work
- **Heat Exhaustion: Headache**, nausea, dizziness; cool, clammy, moist skin; heavy sweating; weak, fast pulse; shallow respiration, normal temperature
- **Heat Stroke**: Headache, nausea, weakness, hot dry skin, fever, rapid strong pulse, rapid deep respirations, loss of consciousness, convulsions, coma. *This is a life-threatening condition***.**

Do not permit a worker to wear a semi-permeable or impermeable garment when they are showing signs or symptoms of heat-related illness.

To monitor the worker, measure:

- **Heart rate: Count** the radial pulse during a 30-second period as early as possible in the rest period. If the heart rate exceeds 100 beats per minute at the beginning of the rest period, shorten the next work cycle by one-third and keep the rest period the same. If the heart rate still exceeds 100 beats per minute at the next rest period, shorten the following work cycle by one-third. A worker cannot return to work after a rest period until their heart rate is below 100 beats per minute.
- **Oral temperature: Use** a clinical thermometer (3 minutes under the tongue) or a similar device to measure the oral temperature at the end of the work period (before drinking). If oral temperature exceeds 99.6°F (37.6°C), shorten the next work cycle by one-third without changing the rest period. A worker cannot return to work after a rest period until their oral temperature is below 99.6°F. If oral temperature still exceeds 99.6°F (37.6°C) at the beginning of the next rest period, shorten the following cycle by one-third. Do not permit a worker to wear a semi-permeable or impermeable garment when oral temperature exceeds 100.6°F (38.1°C).

Prevention of Heat Stress - Proper training and preventative measures will aid in averting loss of worker productivity and serious illness. Heat stress prevention is particularly important because once a person suffers from heat stroke or heat exhaustion, that person may be predisposed to additional heat-related illnesses. To avoid heat-stress the following steps should be taken:

- Adjust work schedules.
- Mandate work slowdowns as needed.
- Perform work during cooler hours of the day if possible or at night if adequate lighting can be provided.
- Provide shelter (air-conditioned, if possible) or shaded areas to protect personnel during rest periods.
- Maintain worker's body fluids at normal levels. This is necessary to ensure that the cardiovascular system functions adequately. Daily fluid intake must equal the amount of water lost in sweat, i.e., eight fluid ounces (0.23 liters) of water must be ingested for every eight ounces (0.23 kilograms [kg]) of weight loss. The normal thirst mechanism is not sensitive enough to ensure that enough water will be drunk to replace lost sweat. When heavy sweating occurs, encourage the worker to drink more. The following strategies may be useful:
    - Maintain water temperature 50° to 60°F (10° to 16.6^{O}C).
    - Provide small disposal cups that hold about four ounces (0.1 liters).
    - Have workers drink 16 ounces (0.5 liters) of fluid (preferably water or dilute drinks) before beginning work.
    - Urge workers to drink a cup or two every 15 to 20 minutes, or at each monitoring break. A total of 1 to 1.6 gallons (4 to 6 liters) of fluid per day are recommended, but more may be necessary to maintain body weight.
    - Train workers to recognize the symptoms of heat-related illness.

3.3.3 Cold-Related Illness

If work on this project begins in the winter months, thermal injury due to cold exposure can become a problem for field personnel. Systemic cold exposure is referred to as hypothermia. Local cold exposure is called frostbite.

- **Hypothermia -** Hypothermia is defined as a decrease in the patient's core temperature below 96°F. The body temperature is normally maintained by a combination of central (brain and spinal cord) and peripheral (skin and muscle) activity. Interference with any of these mechanisms can result in hypothermia, even in the absence of what normally is considered a "cold" ambient temperature. Symptoms of hypothermia include shivering, apathy, listlessness, sleepiness, and unconsciousness.

- **Frostbite -** Frostbite is both a general and medical term given to areas of local cold injury. Unlike systemic hypothermia, frostbite rarely occurs unless the ambient temperatures are less than freezing and usually less than 20°F. Symptoms of frostbite are sudden blanching or whitening of the skin; the skin has a waxy or white appearance and is firm to the touch; tissues are cold, pale, and solid.

Prevention of Cold-Related Illness - To prevent cold-related illness:

- Educate workers to recognize the symptoms of frostbite and hypothermia.
- Identify and limit known risk factors:
- Assure the availability of an enclosed, heated environment on or adjacent to the site.
- Assure the availability of dry changes of clothing.
- Assure the availability of warm drinks.
- Start (oral) temperature recording at the job site:
- At the FSO or Field Team Leader's discretion when suspicion is based on changes in a worker's performance or mental status.
- At a worker's request.
- As a screening measure, two times per shift, under unusually hazardous conditions (e.g., wind chill less than 20°F, or wind-chill less than 30°F with precipitation).
- As a screening measure whenever anyone worker on the site develops hypothermia.

Any person developing moderate hypothermia (a core temperature of 92°F) cannot return to work for 48 hours.

3.3.4 Noise

Work during the proposed activities may be conducted at locations with high noise levels from the operation of equipment. Hearing protection will be used, as necessary.

3.3.5 Hand and Power Tools

The use of hand and power tools can present a variety of hazards, including physical harm from being struck by flying objects, being cut, or struck by the tool, fire, and electrocution. All hand and power tools should be inspected for health and safety hazards prior to use. If deemed unserviceable/un-operable, notify the supervisor and tag and remove equipment out of service. Ground Fault Circuit Interrupters (GFCIs) are required for all power tools requiring direct electrical service.

3.3.6 Slips, Trips, and Fall Hazards

Care should be exercised when walking at the site, especially when carrying equipment. The presence of surface debris, uneven surfaces, pits, facility equipment, and soil piles contribute to tripping hazards and fall hazards. To the extent possible, all hazards should be identified and marked on the site, with hazards communicated to all workers in the area.

3.3.7 Utilities (Electrocution and Fire Hazards)

3.3.7.1 Utility Clearance

The possibility of encountering underground utilities poses fire, explosion, and electrocution hazards. All excavation work will be preceded by a review of available utility drawings and by notification of the subsurface work to N.Y. One –Call--Center.

3.3.7.2 Lockout-Tagout

The potential adverse effects of electrical hazards include burns, arc flashes, and electrocution, which could result in serious injury including death. Therefore, there is a procedure that establishes the requirements for the lockout/tag out (LOTO) of energy isolating devices in accordance with the OSHA electrical lockout and tagging requirements as specified in 29CFR1910.147 and 29 CFR 1926.417. This procedure will be used to ensure that all machines and equipment are isolated from potentially hazardous energy. If possible, equipment that could cause injury due to unexpected energizing, start-up, or release of stored energy will be locked/tagged, before field personnel performs work activities.

The facility owner/operator/representative is to be the authorized person that will initiate and perform the LOTO in accordance with applicable rules and practices. Inerting of electrical power sources is to be completed by an authorized and licensed electrician. Langan personnel will follow LOTO protocols and practices including adding a separate lock/signature to the LOTO chain in accordance with said protocols and practices.

SPECIAL NOTE: Project personnel will assume that all electrical equipment at the surface, subsurface, and overhead locations are energized until equipment has been designated and confirmed as de-energized by a utility company representative. Langan will notify the designated utility representative prior to working adjacent to this equipment and will verify that the equipment is energized or de-energized in the vicinity of the work location. No project work shall be performed by Langan personnel or subcontractors near energized electrical lines or equipment.

The FTL shall accompany the designated facility owner/operator/representative or authorized/licensed electrician in surveying to locate and identify all energy-isolating devices. Langan will note which switches, valves or other isolating devices are used for inerting the

equipment and how they are set assuring LOTO. The lockout/tagout procedure involves, but is not limited to, electricity, motors, steam, natural gas, compressed air, hydraulic systems, digesters, sewers, etc.

3.3.8 Adequate Lighting

Indoor or night activities must be done under adequate lighting conditions. The Langan field engineer must be able to clearly see the equipment, all controls and have sufficient lighting to detail color labels. Battery operated lights are sufficient provided they cast a wide enough field to provide the required lighting and there are back-up batteries and emergency flashlights available. Electrically powered lights are suitable provided the electrical source is equipped with a ground fault interrupt circuit (GFIC) and the extensions cords are visually inspected prior to each use, and not used if they show cracked, damaged, or missing insulation. If a generator is supplying the electricity, it must be located outdoors and properly grounded and vented.

3.3.9 Physical Hazard Considerations for Material Handling

There are moderate to severe risks associated with moving heavy objects at the Site. The best method of reducing back injuries is to reduce or eliminate manual lifting. Mechanical lifting devices should be used whenever possible.

- Size up the load before attempting to lift it. Heavy objects will be lifted and moved by mechanical devices rather than manual effort whenever possible. Never overexert when lifting.
    - When using a mechanical device, the devices should be appropriate for the lifting of moving tasks and operated only by trained and authorized personnel.
    - Objects that require special handling or rigging will only be moved under the guidance of a person who has been specifically trained to move such objects.
    - Lifting devices will be inspected, certified, and labeled to confirm their weight capacities. Defective equipment will be taken out of service immediately and repaired or destroyed.
    - The wheels of any truck being loaded or unloaded will be choked to prevent movement. Outriggers will be fully extended to a flat, firm surface during operation.
    - Personnel will not pass under a raised load, nor will a suspended load be left unattended.
    - Personnel will not be carried on lifting equipment unless it is specifically designed to carry passengers.
    - All reciprocating, rotating, or other moving parts will be always guarded.
    - Accessible fire extinguishers, currently (monthly) inspected, will be available in all mechanical lifting devices.
    - Verify all loads/materials are secure before transportation
- If manual lifting cannot be avoided the following lifting procedures are recommended.
    - If the load is thought to be more than one person can handle, get another person

to help with the job.
- Make sure you can carry the load where you need to go before attempting to lift it. Make sure your path is clear of equipment, materials, debris, holes, etc.
- Place your feet close to the object, spread about 12 inches apart.
- Bend your knees and get a good hand hold.
- Lift straight up smoothly, allowing your legs not your back to do the work.
- Keep the load close to the body with your elbows and arms tucked in.
- Do not twist or turn your body once you have made the lift.
- Set the load down properly:
  - Lower the load slowly by bending at your knees, letting your legs do most of the work.
  - Don't let go of the load until it's secure on the surface.

Material handling tasks that are unusual or require specific guidance will need a written addendum to this HASP. The addendum must identify the lifting protocols before the tasks are performed. Upon approval, the plan must be reviewed with all affected employees and documented. Any deviation from a written plan will require approval by the Langan HSM.

3.3.10 Hearing Conservation

Under the construction industry standard, the maximum permissible occupational noise exposure is 90 A-weighted decibels (dbA) (8-hour TWA), and noise levels more than 90 dbA must be reduced through feasible administrative and engineering controls (20 CFR 1926.52). Hearing protection is required when working within 15 feet of vacuum extraction equipment and drill rigs.

3.3.11 Open Water

Employees working over or near water, where the danger of drowning exists, must be provided with U.S. Coast Guard-approved life jackets or buoyant work vests. Prior to and after each use, the buoyant work vests or life preservers must be inspected for defects that would alter their strength or buoyancy. Defective units must not be used.

And should a worker fall into the water, OSHA requires (29 CFR 1926.106(c)) that ring-buoys with at least 90 feet of the line must be provided and ready for emergency rescue operations. The distance between ring buoys must not exceed 200 feet. Another remedial action required by OSHA (29 CFR 1926.106(d)) is the use of lifesaving skiffs.

OSHA requires that at least one lifesaving skiff must be immediately available at locations where employees are working over or adjacent to water and must include the following provisions.

- The skiff must be in the water or capable of being quickly launched by one person.
- At least one person must be present and specifically designated to respond to water emergencies and always operate the skiff when there are employees above water.

- When the operator is on break another operator must be designated to provide requisite coverage when there are employees above water.
- The designated operator must either have the skiff always staffed or have someone remain in the immediate area such that the operator can quickly reach the skiff and perform rescue services.
- The skiff operator may be assigned other tasks provided the tasks do not interfere with the operator's ability to quickly reach the skiff.
- A communication system, such as a walkie-talkie, must be used to inform the skiff operator of an emergency and to inform the skiff operator where the skiff is needed.
- The skiff must be equipped with both a motor and oars.

Regarding the number of skiffs required and the appropriate maximum response time, the following factors must be evaluated:

- The number of work locations where there is a danger of falling into water.
- The distance to each of those locations.
- Water temperature and currents.
- Other hazards such as, but not limited to, rapids, dams, and water intakes.

Other regulations that present H&S practices and PPE for work on or near water include: 29 CFR 1910, Subpart T (401 – 440).

3.4 Biological Hazards

3.4.1 Animals

There is a possibility of encountering wildlife including reptiles, rodents, and other small and medium-sized mammals. Langan personnel are to avoid interacting with any wildlife.

3.4.2 Insects

Ticks and other biting or stinging insects may be encountered during site operations. Langan personnel should take necessary precautions including wearing long sleeve shirts and insecticide to prevent bites and stings. After fieldwork, Langan personnel should perform a complete visual inspection of their clothing to ensure they are not inadvertently harboring ticks. If they do observe a tick bite, they are to contact the HSM or HSO and report the event.

3.4.3 Plants

Poisonous plants may be encountered during site operations. Langan personnel should take necessary precautions including donning long sleeve shirts and applying preventative poison

Ivy/Sumac lotion to prevent or limit the effects of exposure. If after fieldwork, Langan employees do observe a reaction to poisonous plant exposure, they are to contact the HSM or HSO and report the event.

3.4.4 Mold

This section is restricted to subsurface investigations where sampling soil, groundwater, soil or sub-slab vapor or ambient air in an indoor environment with slight to moderate mold impact. Mold exposure symptoms include nasal stuffiness, eye irritation, or wheezing.

The Langan field engineer is required to don a ½ face respirator with a minimum p-100 particulate filter and Tyvek™ type overclothing before entering mold impacted indoor work area. The Langan field engineer must be medically cleared and have been properly fitted for a respirator before donning one.

3.5 Additional Safety Analysis

3.5.1 Presence of Non-Aqueous Phase Liquids (NAPL)

Special care and PPE should be considered when NAPL is observed as NAPL is a typically flammable fluid and releases VOCs known to be toxic and/or carcinogenic. If NAPL is present in a monitoring well, vapors from the well casing may contaminate the work area breathing zone with concentrations of VOCs potentially exceeding health and safety action levels. In addition, all equipment used to monitor or sample NAPL (or ground water from wells containing NAPL) must be intrinsically safe. Equipment that directly contacts NAPL must also be resistant to organic solvents.

At a minimum, a PID should be used to monitor VOCs when NAPL is observed. If NAPL is expected to be observed in an excavation or enclosed area, air monitoring must be started using calibrated air monitoring equipment designed to sound an audio alarm when atmospheric concentrations of VOC are within 10% of the LEL. In normal atmospheric oxygen concentrations, the LEL monitoring may be done with a Wheatstone bridge/catalytic bead type sensor (i.e., MultiRAE). However, in oxygen-depleted atmospheres (confined space), only an LEL designed to work in low-oxygen environments may be used. Best practices require that the LEL monitoring unit be equipped with a long sniffer tube to allow the LEL unit to remain outside the UST excavation.

When NAPL is present, Langan personnel are required to always use disposable nitrile gloves to prevent skin contact with contaminated materials. They should also consider having available respirators and protective clothing (Tyvek® overalls), especially if NAPL is in abundance and there are high concentrations of VOCs.

All contaminated disposables including PPE and sampling equipment must be properly disposed of in labeled 55-gallon drums.

3.6 Job Safety Analysis

A Job Safety Analysis (JSA) is a process to identify existing and potential hazards associated with each job or task so these hazards can be eliminated, controlled, or minimized. A JSA will be performed at the beginning of each workday, and additionally whenever an employee begins a new task or moves to a new location. All JSAs must be developed and reviewed by all parties involved. A blank JSA form and documentation of completed JSAs are in Attachment G.

4.0 PERSONNEL TRAINING

4.1 Basic Training

Completion of an initial 40-hour HAZWOPER training program as detailed in OSHA's 29 CFR 1910.120(e) is required for all employees working on a site engaged in hazardous substance removal or other activities which expose or potentially expose workers to hazardous substances, health hazards, or safety hazards as defined by 29 CFR 1910.120(a). Annual 8-hour refresher training is also required to maintain competencies to ensure a safe work environment. In addition to these training requirements, all employees must complete the OSHA 10-hour Construction Safety and Health training, and supervisory personnel must also receive eight additional hours of specialized management training. Training records are maintained by the HSM.

4.2 Initial Site-Specific Training

Training will be provided to specifically address the activities, procedures, monitoring, and equipment for site operations at the beginning of each field mobilization and the beginning of each discrete phase of work. The training will include the site and facility layout, hazards, and emergency services at the site, and will detail all the provisions contained within this HASP. For a HAZWOPER operation, training on the site must be for a minimum of 3 days. Specific issues that will be addressed include the hazards described in Section 3.0.

4.3 Tailgate Safety Briefings

Before starting work each day or as needed, the Langan HSO will conduct a brief tailgate safety meeting to assist site personnel in conducting their activities safely. Tailgate meetings will be documented in Attachment H. Briefings will include at a minimum the following:

- Work plan for the day.
- Review of safety information relevant to planned tasks and environmental conditions.

- New activities/tasks being conducted.
- Driving conditions/hazards/designated parking areas.
- Results of Jobsite Safety Inspection Checklist.
- Changes in work practices.
- Safe work practices; and
- Discussion and remedies for noted or observed deficiencies.

5.0 MEDICAL SURVEILLANCE

All personnel who will be performing fieldwork involving potential exposure to toxic and hazardous substances (defined by 29 CFR 1910.120(a)) will be required to have passed an initial baseline medical examination, with follow-up medical exams thereafter, consistent with 29 CFR 1910.120(f). Medical evaluations will be performed by, or under the direction of, a physician certified in occupational medicine.

Additionally, personnel who may be required to perform work while wearing a respirator must receive medical clearance as required under CFR 1910.134(e), *Respiratory Protection*. Medical evaluations will be performed by, or under the direction of, a physician certified in occupational medicine. Results of medical evaluations are maintained by the HSM.

5.1 Mercury Monitoring

Langan includes medical monitoring for mercury during the initial baseline and annual physical.

5.2 Coronavirus

General Preventative Measures

Field personnel must follow general proper hygiene measures while in the field including:

- Avoid touching eyes, nose, and mouth.
- Cover your mouth when you are about to cough or sneeze with tissue and throw in the trash.
- Wash hands often with soap and water for 20 seconds after going to the bathroom, before eating, after blowing nose, coughing, or sneezing.
- Use hand sanitizer with at least 60% alcohol if soap and water are not available.
- Avoid physical contact with other people (e.g., no handshakes).
- Maintain a safe distance of at least six feet from other people (social distancing).
- Wear face coverings when around other workers to minimize the spread of COVID-19. (May be required in certain states or locations.)

Construction Trailers

Employees should avoid the use of shared construction trailers or where employees cannot maintain a safe distance (minimum 6 feet) from other workers. If trailer use is needed, areas such as desks, phones, chairs, and other common areas, should be cleaned and disinfected before and after use. Protocols should be developed to minimize trailer use to essential personnel, restrict use from any workers who are ill or showing symptoms of being ill, use face coverings and ensure a safe distance of six feet can be established between workers.

Communication

Include Coronavirus topics and prevention topics in daily tailgate meetings to ensure Coronavirus awareness is communicated daily. Discussions can focus on general topics including social distancing, prevention measures for field personnel, signs and symptoms, and recent news on the Coronavirus. Site-specific topics should include minimizing face-to-face contact, disinfecting/sterilizing field equipment, use of PPE to reduce exposure, site security, use of face coverings, and other potential exposure issues/concerns.

Sick/Ill Workers

No Langan employee is permitted to be onsite when ill and/or showing potential symptoms of the Coronavirus. Symptoms of the Coronavirus may appear 2-14 days after exposure and can range from mild to severe. The most common symptoms include fever, fatigue, dry cough, shortness of breath chills, repeated shaking with chills, muscle pain, headache, sore throat, or new loss of taste or smell. If an employee or subcontractor is observed being ill or exhibiting symptoms of Coronavirus, employees must immediately utilize their Stop Work Authority and contact their project manager to address the situation. If an employee observes another worker onsite exhibiting symptoms of Coronavirus, immediately utilize Stop Work Authority, notify their project manager, and site manager or safety officer. Work should resume when the safety and health of Langan and subcontractors is adequately addressed.

6.0 PERSONAL PROTECTIVE EQUIPMENT

6.1 Levels of Protection

Langan will provide PPE to Langan employees to protect them from the specific hazards they are likely to encounter onsite. Directly hired contractors will provide their employees with equivalent PPE to protect them from the specific hazards likely to be encountered on-site. Selection of the appropriate PPE must take into consideration: (1) identification of the hazards or suspected

hazards; (2) potential exposure routes; and (3) the performance of the PPE construction (materials and seams) in providing a barrier to these hazards.

Human exposure to contaminants found in the subsurface can occur through three primary routes:

- Inhalation of gases, vapors, dust, or mist is a common route of exposure. Chemicals can enter and irritate the airways and the lungs. They can become deposited in the airways or can be absorbed through the lungs into the bloodstream.
- Direct contact of contaminants with the skin or eyes is a common route of exposure. Some substances are absorbed through the skin and can enter the bloodstream. Broken, cut, or cracked skin will allow substances to enter the body more easily.
- Ingestion or swallowing of food, drink, or other substances is the third route of exposure. Chemicals that get in or on food, utensils, or hands can be ingested. Substances can be absorbed into the blood.

Based on anticipated site conditions and the proposed work activities to be performed at the site, Level D protection will be used. The upgrading/downgrading of the level of protection will be based on continuous air monitoring results as described in Section 6.0 (when applicable). The decision to modify standard PPE will be made by the site HSO or FTL after conferring with the PM. The levels of protection are described below.

Level D Protection (as needed)

- Safety glasses with side shields or chemical splash goggles
- Safety boots/shoes
- Coveralls (Tyvek® or equivalent)
- Hard hat
- Long sleeve work shirt and work pants
- Nitrile gloves
- Hearing protection
- Reflective safety vest

Level D Protection (Modified, as needed)

- Safety glasses with side shields or chemical splash goggles
- Safety boots/shoes (toe-protected)
- Disposable chemical-resistant boot covers.
- Coveralls (poly-coated Tyvek or equivalent to be worn when contact with wet contaminated soil, groundwater, or non-aqueous phase liquids is anticipated)

- Hard hat
- Long sleeve work shirt and work pants
- Nitrile gloves
- Hearing protection (as needed)
- Personal floatation device (for work within 5 ft of the water)
- Reflective traffic vest

Level C Protection (as needed)

- Full or Half face, air-purifying respirator, with NIOSH approved High-Efficiency Particulate Air (HEPA) filter.
- Inner (latex) and outer (nitrile) chemical-resistant gloves
- Safety glasses with side shields or chemical splash goggles
- Chemical-resistant safety boots/shoes
- Hard hat
- Long sleeve work shirt and work pants
- Coveralls (Tyvek® or equivalent)
- Hearing protection (as needed)
- Reflective safety vest

The action levels used in determining the necessary levels of respiratory protection and upgrading to Level C are summarized in Table 4. The written Respiratory Protection Program is maintained by HSM and is available if needed. The monitoring procedures and equipment are outlined in Section 6.0 (when applicable).

6.2 Respirator Fit-Test.

All Langan employees who may be exposed to hazardous substances at the work site must be in possession of a full or half face air-purifying respirator and have been successfully fitted within the past year. Fit-test records are maintained by the HSM.

6.3 Respirator Cartridge Change-Out Schedule

Respiratory protection is required to be worn when certain action levels (Table 2) are reached. A respirator cartridge change-out schedule has been developed to comply with 29 CFR 1910.134. The respirator cartridge change-out schedule for this project is as follows:

- Cartridges must be removed and disposed of at the end of each shift when cartridges become wet or the wearer experiences a breakthrough, whichever occurs first.
- If the humidity exceeds 85%, then cartridges must be removed and disposed of after 4 hours of use.

Respirators must not be stored at the end of the shift with contaminated cartridges left on. Cartridges must not be worn on the second day, no matter how short the time period was the previous day they were used.

7.0 AIR QUALITY MONITORING AND ACTIONS LEVELS

7.1 Monitoring During Site Operations

Atmospheric air monitoring results may be collected and used to provide data to determine when exclusion zones need to be established and when certain levels of personal protective equipment are required. For all instruments, there are Site-specific action-level criteria that are used in making field health and safety determinations. Other data, such as the visible presence of contamination or the steady state nature of air contaminant concentration, are also used in making field health and safety decisions. Therefore, the HSO may establish an exclusion zone or require a person to wear a respirator even though atmospheric air contaminant concentrations are below established HASP action levels.

During site work involving disturbance of petroleum-impacted or fill material, real-time air monitoring may be conducted for methane and VOCs. A MultiRAE LEL/Oxygen (O2) meter and FID will be used to monitor the LEL of methane, and a PID and/or FID will be used to monitor concentrations of VOCs at personnel breathing-zone height. Air monitoring will be the responsibility of the HSO or appointed substitute. Air monitoring may be conducted during intrusive activities associated with the completion of excavation, debris removal, and soil grading. All manufacturers' instructions for instrumentation and calibration will be available onsite.

Subcontractors' air monitoring plans must be equal to or more stringent than the Langan plan.

An air monitoring calibration log is provided in Attachment D of this HASP.

7.1.1 Volatile Organic Compounds

Monitoring with a PID, such as a MiniRAE 2000 (10.6v) or equivalent may occur during intrusive work in the Areas of Concern (AOCs). Colorimetric Indicator Tubes for benzene may be used as a backup for the PID if measurements remain above background monitor every 2 hours. The HSO will monitor the employee's breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (odors, visible gases, etc.) since the last measurement. If VOC levels are observed above 5 ppm for longer than 5 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for monitored gases are provided in Table 4.

7.1.2 Metals

Based upon the site historic fill, there is a potential for the soils to contain Polycyclic Aromatic Hydrocarbons (PAHs) and metals. During invasive procedures which have the potential for creating airborne dust, such as excavation of dry soils, a real-time airborne dust monitor such as a Mini-Ram may be used to monitor for air particulates. The HSO will monitor the employee's breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (appearance of visible dust) since the last measurement. If dust levels are observed to be greater than 0.100 milligrams per cubic meter (mg/m^3) or visible dust is observed for longer than 15 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for dust monitoring are provided in Table 4.

7.1.3 Methane

During soil excavation or other intrusive activities, direct reading air monitoring may be performed in the excavation area to determine exposure to workers. Monitoring an LEL/O2 meter and FID may occur during intrusive work in the AOCs. The HSO will monitor the employees' breathing zone at least hourly during intrusive activities. If LEL levels are observed above 20% the professional engineer (PE) or their designee will stop work and evacuate the area; warn others; and determine source of readings and take corrective actions. The Contractor will be responsible for mitigating explosive gas levels.

7.2 Monitoring Equipment Calibration and Maintenance

Instrument calibration must be documented and included in a dedicated safety and health logbook or on separate calibration pages of the field book. All instruments must be calibrated before and after each shift. Calibration checks may be used during the day to confirm instrument accuracy. Duplicate readings may be taken to confirm individual instrument responses.

All instruments must be operated in accordance with the manufacturers' specifications. Manufacturers' literature, including an operation manual for each piece of monitoring equipment, will be maintained on-site by the HSO for reference.

7.3 Determination of Background Levels

Background (BKD) levels for VOCs, dust and methane will be established prior to intrusive activities within the AOC at an upwind location. A notation of BKD levels will be referenced in the daily monitoring log. BKD levels are a function of prevailing conditions. BKD levels will be taken in an appropriate upwind location as determined by the HSO.

Table 4 lists the instrument action levels.

8.0 COMMUNITY AIR MONITORING PROGRAM

Community air monitoring may be conducted in compliance with local standards. If conducted, Langan will implement the generic CAMP outlined below amended to comply with local conditions or standards:

Monitoring for dust and odors will be conducted during all ground intrusive activities by the FTL. Continuous monitoring of the perimeter of the work zones for odor, VOCs, and dust may be required for all ground intrusive activities such as soil excavation and handling activities. The work zone is defined as the general area in which machinery is operating in support of remediation activities. A portable PID will be used to monitor the work zone and for periodic monitoring for VOCs during activities such as soil and groundwater sampling and soil excavation. The site perimeter will be monitored for fugitive dust emissions by visual observations as well as instrumentation measurements (if required). When required, particulate or dust will be monitored continuously with real-time field instrumentation that will meet, at a minimum, the local standards or, default to the performance standards below:

If VOC monitoring is required, the following actions will be taken based on VOC levels measured:

- If total VOC levels exceed 5 ppm above background for the 15-minute average at the perimeter, work activities will be temporarily halted and monitoring continued. If levels readily decrease (per instantaneous readings) below 5 ppm above background, work activities will resume with continued monitoring.
- If total VOC levels at the downwind perimeter of the hot zone persist at levels more than 5 ppm above background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps work activities will resume provided that the total organic vapor level is 200 feet downwind of the hot zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less – but in no case less than 20 feet, is below 5 ppm above background for the 15-minute average.
- If the total VOC level is above 25 ppm at the perimeter of the hot zone, activities will be shut down.

If dust monitoring with field instrumentation is required, the following actions will be taken based on instrumentation measurements:

- If the downwind particulate level is 100 micrograms per cubic meter ($\mu g/m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression must be employed. Work may continue with dust suppression techniques provided that downwind particulate matter less than

10 microns (PM10) levels do not exceed 150 µg/m³ above the background level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM10 levels are greater than 150 µg/m³ above the background level, work must be stopped, and a re-evaluation of activities initiated. Work can resume if dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m³ of the upwind level and in preventing visible dust migration.

8.1 Dust Suppression Techniques

Preventative measures for dust generation may include wetting site fill and soil, construction of an engineered construction entrance with a gravel pad, a truck wash area, covering soils with tarps, and limiting vehicle speeds to five miles per hour.

Work practices to minimize odors and vapors include limiting the time that the excavations remain open, minimizing stockpiling of contaminated-source soil, and minimizing the handling of contaminated material. Offending odor and organic vapor controls may include the application of foam suppressants or tarps over the odor or VOC source areas. Foam suppressants may include biodegradable foams applied over the source material for short-term control of the odor and VOCs.

If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include direct load-out of soils to trucks for off-site disposal; use of chemical odorants in spray or misting systems; and use of staff to monitor odors in surrounding neighborhoods.

Where odor nuisances have developed during remedial work and cannot be corrected, or where the release of nuisance odors cannot otherwise be avoided due to on-site conditions or proximity to sensitive receptors, odor control will be achieved by sheltering excavation and handling areas under tented containment structures equipped with appropriate air venting/filtering systems.

9.0 WORK ZONES AND DECONTAMINATION

9.1 Site Control

Work zones are intended to control the potential spread of contamination throughout the site and to ensure that only authorized individuals are permitted into potentially hazardous areas. Specific zones will be established on the work site by the Contractor when operations begin for each task requiring such delineation. Maps depicting the zones will be available at the Site.

Any person working in an area where the potential for exposure to site contaminants exists will only be allowed access after providing the HSO with proper training and medical documentation.

Exclusion Zone (EZ) - All activities which may involve exposure to site contaminants, hazardous materials, and/or conditions should be considered an EZ. Decontamination of field equipment will also be conducted in the Contaminant Reduction Zone (CRZ) which will be located on the perimeter of the EZ. The EZ and the CRZ will be delineated by cones, tapes, or other means. The HSO may establish more than one EZ where different levels of protection may be employed, or different hazards exist. The size of the EZ must be determined by the HSO allowing adequate space for the activity to be completed, field members, and emergency equipment.

9.2 Contamination Zone

9.2.1 Personnel Decontamination Station

Personal hygiene, coupled with diligent decontamination, will significantly reduce the potential for exposure.

9.2.2 Minimization of Contact with Contaminants

During the completion of all site activities, personnel should attempt to minimize the chance of contact with contaminated materials. This involves a conscientious effort to keep "clean" during site activities. All personnel should minimize kneeling, splash generation, and another physical contact with contamination as PPE is intended to minimize accidental contact. This may minimize the degree of decontamination required and the generation of waste materials from site operations.

Field procedures will be developed to control spray and runoff and to ensure that unprotected personnel working nearby are not affected.

9.2.3 Personnel Decontamination Sequence

Decontamination may be performed by removing all PPE used in EZ and placing it in drums/trash cans at the CRZ. Baby wipes should be available for wiping hands and face. Drums/trash cans will be labeled by the field crews in accordance with all local, state, and federal requirements. Management plans for contaminated PPE, and tools are provided below.

9.2.4 Emergency Decontamination

If circumstances dictate that contaminated clothing cannot be readily removed, then remove gross contamination and wrap injured personnel with clean garments/blankets to avoid contaminating other personnel or transporting equipment. If the injured person can be moved,

he/she will be decontaminated by site personnel as described above before emergency responders handle the victim. If the person cannot be moved because of the extent of the injury (a back or neck injury), provisions must be made to ensure that emergency response personnel will be able to respond to the victim without being exposed to potentially hazardous atmospheric conditions. If the potential for inhalation hazards exists, such as with open excavation, this area will be covered with polyethylene sheeting to eliminate any potential inhalation hazards. All emergency personnel should be immediately informed of the injured person's condition, and potential contaminants, and provided with all pertinent data.

9.2.5 Hand-Held Equipment Decontamination

Hand-held equipment includes all monitoring instruments as stated earlier, samples, hand tools, and notebooks. The hand-held equipment is dropped at the first decontamination station to be decontaminated by one of the decontamination team members. These items must be decontaminated or discarded as waste prior to removal from the CRZ.

To aid in decontamination, monitoring instruments can be sealed in plastic bags or wrapped in polyethylene. This will also protect the instruments against contaminants. The instruments will be wiped clean using wipes or paper towels if contamination is visually evident. Sampling equipment, hand tools, etc. will be cleaned with non-phosphorous soap to remove any potentially contaminated soil and rinsed with deionized water. All decontamination fluids will be containerized and stored on-site pending waste characterization sampling and appropriate off-site disposal.

9.2.6 Heavy Equipment Decontamination

All heavy equipment and vehicles arriving at the work site will be free from contamination from offsite sources. Any vehicles arriving at work that are suspected of being impacted will not be permitted on the work site. Potentially contaminated heavy equipment will not be permitted to leave the EZ unless it has been thoroughly decontaminated and visually inspected by the HSO or his appointed substitute.

9.3 Support Zone

The support zone or cold zone will include the remaining areas of the job site. Break areas and support facilities (including equipment storage and maintenance areas) will be in this zone. No equipment or personnel will be permitted to enter the cold zone from the hot zone without passing through the decontamination station in the warm zone (if necessitated). Eating, smoking, and drinking will be allowed only in this area.

9.4 Communications

The following communications equipment will be utilized as appropriate.

- Telephones - A cellular telephone will be located with the HSO for communication with HSM and emergency support services/facilities.
- Hand Signals - Hand signals must be used by field teams, along with the buddy system. The entire field team must know them before operations commence and their use covered during site-specific training. Typical hand signals are the following:

Hand Signal	Meaning
Hand gripping throat	Out of air, cannot breathe
Grip your partner's wrists or place both hands around the waist	Leave immediately without debate
Hands on top of head	Need assistance
Thumbs up	OK; I am all right; I understand
Thumbs down	No; negative
Simulated "stick" break with fists	Take a break; stop work

9.5 The Buddy System

When working in teams of two or more, workers will use the "buddy system" for all work activities to ensure that rapid assistance can be provided in the event of an emergency. This requires work groups to be organized such that workers can remain close together and maintain visual contact with one another. Workers using the "buddy system" have the following responsibilities:

- Provide his/her partner with assistance.
- Observe his/her partner for signs of chemical or heat exposure.
- Periodically check the integrity of his/her partner's PPE.
- Notify the HSO or other site personnel if emergency service is needed.

10.0 NEAREST MEDICAL ASSISTANCE

The address and telephone number of the nearest hospital:

BronxCare Health System (Fulton Devision)
1276 Fulton Ave
Bronx, New York
718-590-1800

A map with directions to the hospital is shown in Figure 2. This information will either be posted prominently on the site or will be available to all personnel all the time. Further, all field personnel, including HSO & FTL, will know the directions to the hospital.

11.0 STANDING ORDERS/SAFE WORK PRACTICES

The standing orders, which consist of a description of safe work practices that must always be followed while on-site by Langan employees and contractors, are shown in Attachment A. The site HSO and FTL each have the responsibility for enforcing these practices. The standing orders will be posted prominently at the site or are always made available to all personnel. Those who do not abide by these safe work practices will be removed from the site.

12.0 SITE SECURITY

No unauthorized personnel must be permitted access to the work areas.

13.0 UNDERGROUND UTILITIES

As provided in Langan's Underground Utility Clearance Guidelines, the following safe work practices should be followed by Langan personnel and the contractor before and during subsurface work in accordance with federal, state, and local regulations:

- Obtain available utility drawings from the property owner/client or operator.
- Provide utility drawings to the project team.
- In the field, mark the proposed area of subsurface disturbance (when possible).
- Ensure that the utility clearance system has been notified.
- Ensure that utilities are marked before beginning subsurface work.
- Discuss subsurface work locations with the owner/client and contractors.
- Obtain approval from the owner/client and operators for proposed subsurface work locations.
- Use safe digging procedures when applicable.
- Stay at least ten feet from all equipment performing subsurface work.
- Ensure that the one-call (811) system or state utility hotline in your area has been notified. Private mark-outs may require the use of ground penetrating radar (GPR).
- Attempt to stay at least 15 feet from subsurface electrical lines and at least 10 feet from all other utility lines or mark-outs. Minimum clearance distances may increase as per chart below.

- Hand auger subsurface boreholes and test pits to 5 feet below ground surface.

TABLE A—MINIMUM CLEARANCE DISTANCES

Voltage (nominal, kV, alternating current)	Minimum clearance distance (feet)
up to 50	10
over 50 to 200	15
over 200 to 350	20
over 350 to 500	25
over 500 to 750	35
over 750 to 1,000	45
over 1,000	(as established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution).

14.0 SITE SAFETY INSPECTION

The Langan HSO, or alternate, will check the work area daily, at the beginning and end of each work shift, or more frequently to ensure safe work conditions. The HSO or alternate must complete the Jobsite Safety Inspection Checklist, found in Attachment F. Any deficiencies must be shared with the FTL, HSM, and PM and will be discussed at the daily tailgate meeting.

15.0 HAND AND POWER TOOLS

All hand- and electric-power tools and similar equipment must be maintained in safe operating condition. All electric-power tools must be inspected before initial use. Damaged tools must be removed immediately from service or repaired. Tools must be used only for the purpose for which they were designed. All users must be properly trained in their safe operation.

16.0 EMERGENCY RESPONSE

16.1 General

This section establishes procedures and provides information for use during a project emergency. Emergencies happen unexpectedly and quickly and require an immediate response; therefore, contingency planning and advanced training of staff is essential. Specific elements of emergency support procedures that are addressed in the following subsections include communications, local emergency support units, and preparation for medical emergencies, first aid for injuries incurred on site, record keeping, and emergency site evacuation procedures. In case of emergency, in addition to 911, call *WorkCare - Incident Intervention®* at 1-888-479-7787 to report their injuries. For all other communications, contact the Langan Incident Hotline at **973-560-4699** as soon as possible.

Should outside assistance be needed for accidents, fire, or release of hazardous substances, the emergency numbers will be available and posted at the site (Table 5) where a readily accessible telephone is made available for emergency use.

Also, in the event of an incident where a team member becomes exposed or suffers from an acute symptom from contact with site materials and must be taken to a hospital, a short medical data sheet (Attachment C) for that individual will be made available to the attending physician. The medical data sheet will include the following:

- Name, address, home phone
- Age, height, weight
- Name of person to be notified in case of an accident.
- Allergies
- Sensitivities
- Does he/she wear contact lenses?
- Short checklist of previous illness
- Name of personal physician and phone
- Name of company physician and phone
- Prescription and non-prescription medications currently used.

An incident reporting form is included in Attachment C.

16.2 Responsibilities

16.2.1 Health and Safety Officer (HSO)

The HSO is responsible for ensuring that all personnel are evacuated safely, and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. The HSO is responsible for ensuring the HSM is notified of all incidents, all injuries, near-misses, fires, spills, releases, or equipment damage. The HSO is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized) so that the HSM can notify OSHA within the required time limit.

16.2.2 Emergency Coordinator

The HSO or their designated alternate will serve as the Emergency Coordinator. The Emergency Coordinator is responsible for ensuring that all personnel are evacuated safely, and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. They are also responsible for ensuring HSM is notified of all incidents, all injuries, near misses, fires, spills, releases, or equipment damage. The Emergency Coordinator is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized.

The Emergency Coordinator must locate emergency phone numbers and identify hospital routes prior to beginning work on the sites. The Emergency Coordinator must make necessary arrangements to be prepared for any emergencies that could occur.

The Emergency Coordinator is responsible for implementing the Emergency Response Plan.

16.2.3 Site Personnel

Project site personnel are responsible for knowing the Emergency Response Plan and the procedures contained herein. All personnel are expected to notify the Emergency Coordinator of situations that could constitute a site emergency. Project site personnel, including all subcontractors, will be trained in the Emergency Response Plan.

16.3 Communications

Once an emergency has been stabilized, the injured Langan personnel should contact *WorkCare - Incident Intervention®* at 1-888-479-7787 to report their injuries. For all other communications, contact the Langan Incident Hotline at **973-560-4699** as soon as possible.

16.4 Local Emergency Support Units

To be able to deal with any emergency that might occur during investigative activities at the site, the Emergency Notification Numbers (Table 5) will be posted and provided to all personnel conducting work within the EZ.

Figure 2 shows the hospital route map. Outside emergency number 911 and local ambulances should be relied on for response to medical emergencies and transport to emergency rooms. Always contact first responders when there are serious or life-threatening emergencies on the site. Project personnel are instructed not to drive injured personnel to the Hospital. In the event of an injury, provide first aid and keep the injured party calm and protected from the elements, and treat for shock when necessary.

16.5 Pre-Emergency Planning

Langan will communicate directly with administrative personnel from the emergency room at the hospital to determine whether the hospital has the facilities and personnel needed to treat cases of trauma resulting from any of the contaminants expected to be found on the site. Instructions for finding the hospital will be posted conspicuously in the site office and each site vehicle.

16.6 Emergency Medical Treatment

The procedures and rules in this HASP are designed to prevent employee injury. However, if an injury occurs, no matter how slight, it will be reported to the HSO immediately. First-aid equipment will be available on-site at the following locations:

- First Aid Kit: Contractor Vehicles
- Emergency Eye Wash: Contractor Vehicles

During the site safety briefing, project personnel will be informed of the location of the first aid station(s) that has been set up. Some injuries, such as severe cuts and lacerations or burns, may require immediate treatment. First-aid instructions provided from off-site doctors or paramedics, before an emergency-response squad arrives at the site or before the injured person can be transported to the hospital, will be followed closely. Only in non-emergency situations may an injured person be transported to an urgent care facility. Due to hazards that may be present at the site and the conditions under which operations are conducted, an emergency may develop. Emergencies can be characterized by injury or acute chemical exposure to personnel, fire or explosion, environmental release, or hazardous weather conditions.

16.8 Emergency Site Evacuation Routes and Procedures

All project personnel will be instructed on proper emergency response procedures and locations of emergency telephone numbers during the initial site safety meeting. If an emergency occurs because of the site investigation activities, including but not limited to fire, explosion, or significant release of toxic gas into the atmosphere, the Langan Project Manager will be verbally notified immediately. All heavy equipment will be shut down, and all personnel will evacuate the work areas and assemble at the nearest intersection to be accounted for and to receive further instructions.

If an emergency arises, the FTL will implement an immediate evacuation of all project personnel due to immediate or impending danger. The FTL will also immediately communicate with the contractor to coordinate any needed evacuation of the property.

The FTL or Site Supervisor will give necessary instructions until the Designated Incident Commander (IC) assumes control. After the emergency has been resolved, the FTL or Site Supervisor will coordinate with the IC and indicate when staff should resume their normal duties. If dangers are present for those at the designated assembly point, another designated location of assembly will be established.

It will be the responsibility of the FTL or Site Supervisor to report a fire or emergency, assess the seriousness of the situation, and initiate emergency measures until the arrival of the local fire fighters or other first responders, should they be necessary. The FTL, working with emergency

responders, may also order the closure of the Site for an indefinite period if it is deemed necessary.

Under no circumstances will incoming visitors be allowed to proceed to the area of concern once an emergency evacuation has been carried out. Visitors or other people present in the emergency must be instructed to evacuate the area. The FTL will ensure that access roads are not obstructed and will remain on-site to provide stand-by assistance upon the arrival of emergency personnel.

If it is necessary to temporarily control traffic in the event of an emergency, those people controlling traffic will wear proper reflection warning vests until the arrival of police or fire personnel.

16.8.1 Designated Assembly Locations

All personnel will evacuate the site and assemble at a designated assembly location. The assembly location will be designated by Langan personnel and discussed during each shift's pre-job safety briefing.

16.8.2 Accounting for Personnel

All contractors and subcontractor supervisors are responsible for the accounting of all personnel assembled at the designed assembly area. The Designated Incident Commander must be notified if personnel are not found.

16.9 Fire Prevention and Protection

In the event of a fire or explosion, procedures will include immediately evacuating the site and notification of the Langan Project Manager of the investigation activities. Portable fire extinguishers will be provided at the work zone. The extinguishers located in the various locations should also be identified prior to the start of work. No personnel will fight a fire beyond the stage where it can be put out with a portable extinguisher (incipient stage).

16.9.1 Fire Prevention

Fires will be prevented by adhering to the following precautions:

- Good housekeeping and storage of materials.
- Storage of flammable liquids and gases away from oxidizers.
- Shutting off engines to refuel.
- Grounding and bonding metal containers during transfer of flammable liquids.
- Use of UL approved flammable storage cans.

- Fire extinguishers rated at least 10 pounds ABC located on all heavy equipment, in all trailers and near all hot work activities.

The person responsible for the control of fuel source hazards and the maintenance of fire prevention and/or control equipment is the HSO.

16.10 Significant Vapor Release

Based on the proposed tasks, the potential for significant vapor release is low. However, if a release occurs, the following steps will be taken:

- Move all personnel to an upwind location. All non-essential personnel must evacuate.
- Upgrade to Level C Respiratory Protection.
- Downwind perimeter locations must be monitored for volatile organics.
- If the release poses a potential threat to human health or the environment in the community, the Emergency Coordinator must notify the Langan Project Manager.
- Local emergency response coordinators will be notified.

16.11 Overt Chemical Exposure

The following are standard procedures to treat chemical exposures. Other, specific procedures detailed on the Material Safety Data Sheet (MSDS) will be followed, when necessary.

SKIN AND EYE: Use copious amounts of soap and water from eye-wash kits and portable hand-wash stations.

CONTACT: Wash/rinse affected areas thoroughly, then provide appropriate medical attention. Skin must also be rinsed for 15 minutes if contact with caustics, acids, or hydrogen peroxide occurs. Affected items of clothing must also be removed from contact with skin.

Providing wash water and soap will be the responsibility of each individual contractor or subcontractor on-site.

16.12 Decontamination during Medical Emergencies

If emergency lifesaving first aid and/or medical treatment is required, normal decontamination procedures may need to be abbreviated or omitted. The HSO or appointed substitute will accompany contaminated victims to the medical facility to advise on matters involving decontamination when necessary. The outer garments can be removed if they do not cause delays, interfere with treatment, or aggravate the problem. Respiratory equipment must always be removed. Protective clothing can be cut away. If the outer contaminated garments cannot be safely removed on site, a plastic barrier placed between the injured individual and clean surfaces should be used to help prevent contamination of the inside of ambulances and/or medical

personnel. Outer garments may then be removed at the medical facility. No attempt will be made to wash or rinse the victim if his/her injuries are life threatening unless it is known that the individual has been contaminated with extremely toxic or corrosive material which could also cause severe injury or loss of life to emergency response personnel. For minor medical problems or injuries, normal decontamination procedures will be followed.

16.13 Adverse Weather Conditions

In the event of adverse weather conditions, the HSO will determine if work continues without potentially risking the safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries.
- Potential for cold stress and cold-related injuries.
- Treacherous weather-related working conditions (hail, rain, snow, ice, high winds).
- Limited visibility (fog).
- Potential for electrical storms.
- Earthquakes.
- Other major incidents.

Site activities will be limited to daylight hours, or when suitable artificial light is provided, and acceptable weather conditions prevail. The HSO will determine the need to cease field operations or observe daily weather reports and evacuate, if necessary, in case of severe inclement weather conditions.

16.14 Spill Control and Response

All small spills/environmental releases must be contained as close to the source as possible. Whenever possible, the SDS will be consulted to assist in determining proper waste characterization and the best means of containment and cleanup. For small spills, sorbent materials such as sand, sawdust, or commercial sorbents should be placed directly on the substance to contain the spill and aid recovery. Any acid spills should be diluted or neutralized carefully prior to attempting recovery. Berms of earthen or sorbent materials can be used to contain the leading edge of the spills. All spill containment materials will be properly disposed of. An exclusion zone of 50 to 100 feet around the spill area should be established depending on the size of the spill.

All contractor vehicles must have spill kits on them with enough material to contain and absorb the worst-case spill from that vehicle. All vehicles and equipment must be inspected prior to being admitted on-site. Any vehicle or piece of equipment that develops a leak will be taken out of service and removed from the job site.

The following seven steps must be taken by the Emergency Coordinator:

1. Determine nature, identity, and amounts of major spills.
2. Make sure all unnecessary people are removed from the spill area.
3. Notify the HSO immediately.
4. Use proper PPE in consultation with the HSO.
5. If a flammable liquid, gas, or vapor is involved, remove all ignition sources, and use non-sparking and/or explosion-proof equipment to contain or clean up the spill (diesel-only vehicles, air-operated pumps, etc.)
6. If possible, try to stop the leak with the appropriate material.
7. Remove all surrounding materials that can react or compound with the spill.

In addition to the spill control and response procedures described in this HASP, Langan personnel will coordinate with the designated project manager relative to spill response and control actions. Notification to the Project Manager must be immediate and, to the extent possible, include the following information:

- Time and location of the spill.
- Type and nature of the material spilled.
- Amount spilled.
- Whether the spill has affected or has a potential to affect a waterway or sewer.
- A brief description of affected areas/equipment.
- Whether the spill has been contained.
- Expected time of cleanup completion. If spill cleanup cannot be handled by Langan's on-site personnel alone, such fact must be conveyed to the Project Manager immediately.

Langan field personnel must notify the project manager when they observe a spill or encounter conditions suggesting one might have occurred.

16.15 Emergency Equipment

The following minimum emergency equipment must be kept and maintained on site:

- Industrial first aid kit.
- Fire extinguishers (one per site).

16.16 Restoration and Salvage

After an emergency, prompt restoration of utilities, fire protection equipment, medical supplies, and other equipment will reduce the possibility of further losses. Some of the items that may need to be addressed are:

- Refilling fire extinguishers.
- Refilling medical supplies.
- Recharging eyewashes and/or showers.
- Replenishing spill control supplies.

16.17 Documentation

Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan Incident/Injury Hotline at 1-(800)-9-LANGAN (extension 4699) and the client representative to report the incident or near miss. For emergencies involving personnel injury and/or exposure, the HSO and affected employee will complete and submit an Employee Exposure/Injury Incident Report (Attachment C) to the Langan Corporate Construction Health and Safety Manager as soon as possible following the incident.

17.0 SPECIAL CONDITIONS

This guideline contains information and requirements for special conditions that may not be routinely encountered.

17.1 Scope

The guideline applies to the specific projects identified within this document. Additional provisions will be addressed in each Site-Specific Construction Health and Safety Plan (HASP), as needed.

17.2 Responsibilities

Site Personnel - All site personnel must be alert to safety hazards on work sites and take action to minimize such hazards. Personnel must utilize the buddy system, watch for inappropriate behavior, and be alerted to changes in site conditions.

Construction Health and Safety Officer (HSO) - The HSO is responsible for considering these procedures in the development of site-specific HASPs. The HSO must schedule frequent "tail gate" safety briefings to enhance safety awareness and discuss potential problems.

17.3 Procedures

The procedures outlined below must be followed when such conditions are encountered.

17.3.1 Ladders

Langan safety procedures must be used to ensure employee safety when using ladders in the office or work sites. All ladders must be coated or repaired to prevent injury to the employee

from punctures or lacerations and to prevent snagging or clothing. Any wood ladder used must have an opaque cover except for identification or warning labels, which may be placed on one face only of a side rail.

17.3.1.1 Ladder Use

Employees must only use ladders for the purposes they were designed for and must not be used as scaffolding. Ladders will be maintained and inspected prior to use for slip hazards including oil and grease. Employees must use ladders only on stable and level surfaces unless the ladder is secured to prevent displacement. Ladders should not be used on slippery surfaces unless secured or provided with slip-resistant feet to prevent accidental displacement. Ladders should not be used in locations where they could be displaced by workplace activities or traffic. Ladder rungs, cleats and steps must be parallel, level and uniformly spaced when the ladder is in the use position.

Employees should not be carrying anything, including equipment that could cause injury if there was a fall while utilizing the ladder. The top and bottom of the ladder area must remain clear while in use. When ascending and descending the ladder, employees must face the ladder.

Ladders must not be loaded beyond the maximum intended load for which they were built or the manufacturer's rated capacity.

17.3.1.2 Portable Ladders

Rungs, cleats, and steps for portable ladders and fixed ladders must be spaced not less than 10 inches apart, nor more than 14 inches apart, as measured between center lines of the rungs, cleats, and steps. When used to access an upper landing surface, the ladder side rails must extend at least three feet above the upper landing surface to which the ladder is used to gain access. If this is not possible, due to the length of the ladder, then the top of the ladder must be secured at its top to a rigid support.

17.3.1.3 Step Stools

Rungs, cleats, and steps of step stools must not be less than 8 inches apart, nor more than 12 inches apart, as measured between center lines of the rungs, cleats, and steps.

17.3.1.4 Extension Ladders

Rungs, cleats, and steps of the base section of extension trestle ladders must be spaced not less than 8 inches apart, nor more than 18 inches apart, as measured between center lines of the rungs, cleats, and steps. The rung spacing on the extension section of the extension trestle ladder must not be less than 6 inches nor more than 12 inches, as measured between the center

lines of the rungs, cleats and steps. Ladders must be used at an angle such that the horizontal distance from the top support to the foot of the ladder is approximately one-quarter of the working length of the ladder (the distance along the ladder between the foot and the top support).

17.3.1.5 Inspection

Ladders will be inspected for visible detects periodically, prior to utilization or after any occurrence that could have negatively affected the ladder. Portable ladders with defects including broken or missing rungs, cleats, or steps, broken or split rails, corroded components, or other faulty components must not be used. The ladder will be immediately marked as defective, tagged as "Do Not Use" or blocked from being used and removed from service until repaired.

17.3.2 First Aid/Cardiopulmonary Resuscitation (CPR)

Langan field and office personnel will be encouraged to be trained in First Aid and Cardiopulmonary Resuscitation (CPR). Training will be provided free of charge by Langan to all employees. Employees will receive a training certificate that will be kept with the Health & Safety Coordinator (HSC). Training and certification will be provided by a credited provider such as American Red Cross or equivalent.

17.3.2.1 Emergency Procedures

Prior to site work, the Langan employees certified in first aid and CPR will be identified in the site-specific HASP. Langan will endear having at least one employee at a job site trained and able to render first aid and CPR. The site-specific HASP will contain first aid information on both potential chemical and physical hazards. Emergency procedures to be followed in case of injury or illnesses are provided in HASP. The HASP will include emergency contact information including local police and fire departments, hospital emergency rooms, ambulance services, on-site medical personnel, and physicians. The HASP will also include directions and contact information for the nearest emergency facility in case immediate medical attention is required. The emergency contact information will be conspicuously posted at the worksite. Employees that are injured and require immediate medical attention must call either 911 or the local posted emergency contacts. Employees should use ambulatory services to transport injured workers to the nearest facility for emergency medical care. In areas where 911 is not available, the telephone numbers of physicians, hospitals, or ambulances must be conspicuously posted.

17.3.2.2 First Aid Supplies

First aid supplies are readily available to all Langan employees when required. First aid kits are in each Langan office. Portable first aid kits are available for employees to use at work sites. First aid kits should consist of items needed to treat employees for potential chemical and

physical injuries. At a minimum, first aid kits should contain items to allow basic first aid to be rendered. Where the eyes or body of an employee may be exposed to corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body must be provided within the work area for immediate emergency use including eye wash solution.

First aid kits will be weatherproof with individually sealed packages of each item. All portable first aid kits must be inspected by Langan employees before and after use to ensure all used items are replaced. When out in the field, employees must check first aid kits weekly to ensure used items are replaced.

17.3.3 Hydrogen Sulfide

Langan employees with the potential to be exposed to hydrogen sulfide while at work sites must have training in hydrogen sulfide awareness. The training will include the identification of areas where employees could be exposed to hydrogen sulfide, health effects, permissible exposure limits, first aid procedures, and personnel protective equipment. Langan employees could be exposed to hydrogen sulfide while at job sites including petroleum refineries, hazardous waste treatment, storage and disposal facilities, uncontrolled hazardous waste sites, and remediation projects.

17.3.3.1 Characteristics

Hydrogen sulfide is a colorless gas with a strong odor of rotten eggs that is soluble in water. Hydrogen sulfide is used to test and make other chemicals. It is also found as a by-product of chemical reactions, such as in sewer treatment. It is a highly flammable gas and a dangerous fire hazard. Poisonous gases are produced in fires including sulfur oxides. Hydrogen sulfide is not listed as a carcinogen.

17.3.3.2 Health Effects

Hydrogen Sulfide can affect employees if inhaled or through contact with skin or eyes. Acute (or short-term) health effects of hydrogen sulfide exposure include irritation of the nose and throat, dizziness, confusion, headache, and trouble sleeping. Inhalation of hydrogen sulfide can irritate the lungs causing coughing and/or shortness of breath. Higher levels of exposure can cause a build-up of fluids in the lungs (pulmonary edema), a medical emergency, with severe shortness of breath.

Chronic (or long-term) health effects of low levels of exposure to hydrogen sulfide can cause pain and redness of the eyes with blurred vision. Repeated exposure may cause bronchitis with cough, phlegm, and shortness of breath.

17.3.3.3 Protective Clothing and Equipment

Respirators are required for those operations in which employees will be exposed to hydrogen sulfide above OSHA permissible exposure level. The maximum OSHA permissible exposure limit (PEL) for hydrogen sulfide is 20 parts of hydrogen sulfide vapor per million parts of air (20 ppm) for an 8-hour workday, and the maximum short-term exposure limit (STEL) is 10 ppm for any 10-minute period.

Where employees are exposed to levels up to 100 parts of hydrogen sulfide vapor per million parts of air (100 ppm), the following types of respiratory protection are allowed:

- Any powered, air-purifying respirator with cartridge(s).
- Any air-purifying, full-facepiece respirator (gas mask) with a chin style, front- or back-mounted canister.
- Any supplied air system with escape self-contained breathing apparatus, if applicable; and,
- Any self-contained breathing apparatus with a full facepiece.

Respirators used by employees must have Mine Safety and Health Administration and the National Institute for Occupational Safety and Health (NIOSH) with approval. Cartridges or canisters must be replaced before the end of their service life, or the end of the shift, whichever occurs first. Langan employees that have the potential to be exposed to hydrogen sulfide will be trained in the proper use of respirators. Respirator training is discussed under– Langan's Respiratory Protection Program.

Employees with potential exposure to hydrogen sulfide, or when required by the client, will wear a portable hydrogen sulfide gas detector. The detector should have an audible, visual, and vibrating alarm. The detector may also provide detection for carbon monoxide, sulfur dioxide, and oxygen-deficient atmospheres. The hydrogen sulfide monitor will, at a minimum, be calibrated to detect hydrogen sulfide at a level of 20 parts of hydrogen sulfide vapor per million parts of air (20 ppm). Many portable gas detectors will have factory settings with a low-level alarm at 10 ppm and a high-level alarm at 15 ppm. Langan employees must consult clients to determine if any site-specific threshold levels exist.

If the hydrogen sulfide gas detector sounds and employees are not wearing appropriate respiratory protection, employees must immediately vacate the area and meet at the assigned emergency location. Langan employees may not re- enter the site without proper respiratory protection and approval from the client or property owner if needed.

Employees must wear PPE to prevent eye and skin contact with hydrogen sulfide. Employees must wear appropriate protective clothing including boots, gloves, sleeves, and aprons, over any

parts of their body that could be exposed to hydrogen sulfide. Non-vented, impact-resistant goggles should be worn when working with or exposed to hydrogen sulfide.

17.3.3.4 Emergency and First Aid Procedures

Eye and Face Exposure

If hydrogen sulfide encounters eyes, it should be washed out immediately with large amounts of water for 30 minutes, occasionally lifting the lower and upper eye lids. Seek medical attention immediately.

Skin Exposure

If hydrogen sulfide contaminates clothing or skin, remove the contaminated clothing immediately and wash the exposed skin with large amounts of water and soap. Seek medical attention immediately. Contaminated clothing should either be disposed of or washed before wearing again.

Breathing

If a Langan employee or other personnel breathe in hydrogen sulfide, immediately get the person exposed to fresh air. If breathing has stopped, artificial respiration should be started. Call for medical assistance or a doctor as soon as possible.

Safety Precautions

Hydrogen sulfide is a highly flammable gas and a dangerous fire hazard. Containers of hydrogen sulfide may explode in a fire situation. Poisonous gases are produced during fires.

Langan employees should contact property owners and operators prior to conducting work onsite to be aware of any site-specific contingency plans, identify where hydrogen sulfide is used at the facility, and be informed about additional safety rules or procedures.

17.3.4 Fire Protection/Extinguishers

Langan field personnel that have been provided with portable fire extinguishers for use at worksites will be trained to familiarize employees with general principles of fire extinguisher use and hazards associated with the incipient stage of firefighting. Training will be provided prior to the initial assignment for field work and annually thereafter.

Portable fire extinguishers must be visually inspected monthly and subjected to an annual maintenance check. Langan will retain records of the annual maintenance date.

17.3.5 Overhead lines

When field work is performed near overhead lines, the lines must be de-energized and grounded, or other protective measures must be provided before the work commences. If overhead lines are to be de-energized, arrangements must be made with the client, property owner, or organization that operates or controls the electric circuits involved to de-energize and ground them. If protective measures, such as guarding, isolating, or insulating, are provided, these precautions must prevent employees from contacting such lines directly with any part of their body or indirectly through conductive materials, tools, or equipment.

When unqualified Langan personnel are working in an elevated position near overhead lines, the location must be such that the person and the longest conductive object they may contact cannot come closer to any unguarded, energized overhead line than the following distances:

1. For voltages to ground 50 kilovolts (kV) or below - 10 feet; and
2. For voltages to ground over 50kV - 10 feet, plus 4 inches for every 10kV over 50kV.

As previously indicated, Langan does not retain qualified employees to perform work on energized equipment.

17.3.5.1 Vehicle and Equipment Clearance

Any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines must be operated so that a clearance of 10 feet is maintained. If the voltage of the overhead lines is higher than 50kV, the clearance must be increased by 4 inches for every 10kV over that voltage.

If any of the following conditions discussed occur, the clearance may be reduced.

- If the vehicle is in transit with its structure lowered, the clearance may be reduced to 4 ft. If the voltage is higher than 50kV, the clearance must be increased to 4 inches for every 10 kV over that voltage.
- If insulating barriers are installed to prevent contact with the lines, and if the barriers are rated for the voltage of the line being guarded and are not a part of or an attachment to the vehicle or its raised structure, the clearance may be reduced to a distance within the designed working dimensions of the insulating barrier.

Employees standing on the ground may not contact the vehicle or mechanical equipment or any of its attachments unless the employee is using protective equipment rated for the voltage, or the equipment is located so that no uninsulated part of its structure (that portion of the structure that provides a conductive path to employees on the ground) can come closer to the overhead line than permitted.

If any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines is intentionally grounded, employees working on the ground near the point of grounding may not stand at the grounding location whenever there is a possibility of overhead line contact. Additional precautions, such as the use of barricades or insulation, must be taken to protect employees from hazardous ground potential, depending on earth resistivity and fault currents, which can develop within the first few feet or more outward from the grounding point.

17.3.6 Trade Secret

Langan employees could potentially be provided with secret trade information by the client or property owner when site-specific information is provided about highly hazardous chemicals. Trade secret means any confidential formula, pattern, process, device, information, or compilation of information that is used in an employer's business, and that allows the employer to obtain an advantage over competitors who do not know or use it. Langan employees understand that this information should be kept confident and if required, may enter into a confidentiality agreement with the client.

17.3.7 Bloodborne Pathogens

Langan employees that can anticipate exposure to blood or other potentially infectious material while at work sites must have training in bloodborne pathogens. Applicable employees would include those trained in first aid and serving a designated role as an emergency medical care provider. Bloodborne pathogens are pathogenic microorganisms that are present in human blood and can cause disease in humans. These pathogens include but are not limited to hepatitis B virus and human immunodeficiency virus.

17.3.7.1 Training

Langan employees with potential occupational exposure to blood or other potentially infectious material must participate in a training program. Training must be conducted prior to the initial assignment where there would be potential for exposure and annually thereafter within one year of previous training. The training program will be provided to Langan employees at no cost to them and during working hours.

Langan will ensure the training program must consist of the following:

- An accessible copy of the regulatory text of 29 CFR 1910.1030 and an explanation of its contents.
- A general explanation of the epidemiology and symptoms of bloodborne diseases.
- An explanation of the modes of transmission of bloodborne pathogens.

- An explanation of Langan's exposure control plan and how the employee can obtain a copy of the written plan.
- An explanation of the appropriate methods for recognizing tasks and other activities that may involve exposure to blood and other potentially infectious materials.
- An explanation of the use and limitations of personal protective equipment (PPE) to prevent and reduce exposure.
- Information on the types, proper use, location, removal, handling, and disposal of PPE.
- An explanation of the basis for the selection of PPE.
- Information on the hepatitis B vaccine, including information on its efficacy, safety, method of administration, the benefits of being vaccinated, and that the vaccine and vaccination will be offered free of charge.
- Information on the appropriate actions to take and people to contact in an emergency involving blood or other potentially infectious materials.
- An explanation of the procedure to follow if an exposure incident occurs, including the method of reporting the incident and the medical follow-up that will be made available.
- Information on the post-exposure evaluation and determining whether the employer is required to provide for the employee following an exposure incident.
- An explanation of the signs and labels and/or color coding required by paragraph 29 CFR 1910.1030(g)(1); and
- An opportunity for interactive questions and answers with the person conducting the training session.

Langan will develop and implement a written Exposure Control Plan, which will be designed to eliminate or minimize employee exposure to bloodborne pathogens. The Exposure Control Plan will contain the following elements:

- An exposure determination for employees.
- The schedule and method of implementation for Methods of Compliance (29 CFR 191.1030(d)), Hepatitis B Vaccination and Post-Exposure Evaluation and Follow-up (29 CFR 1910.1030(f)), Communication of Hazards to Employees (29 CFR 1910.1030(g)) and (h) Recordkeeping (29 CFR 1910.1030(h)).
- The procedure for the evaluation of circumstances surrounding exposure incidents.
- Ensure a copy of the Exposure Control Plan will be accessible to employees; and,
- The Exposure Control Plan must be reviewed and updated at least annually.

Langan employees with occupational exposure to bloodborne pathogens include any employees trained in first aid that would be expected to provide emergency medical care. This determination is made without regard to the use of PPE, which could eliminate or minimize exposure.

Universal precautions must be observed to prevent contact with blood or other potentially infectious materials. According to the concept of Universal Precautions, all human blood and certain human body fluids are treated as if known to be infectious for bloodborne pathogens. When differentiation between body fluid types is difficult or impossible, all body fluids must be considered potentially infectious materials.

Work practice controls must be used to eliminate or minimize employee exposure, if applicable. Since Langan employees will have occupational exposure only during the rendering of first aid, personnel protective equipment will be utilized to reduce or minimize exposure. PPE that could be available to Langan personnel when administering first aid includes safety glasses, gloves, and Tyvek suits or sleeves. PPE and first aid kits will be provided to employees at no cost to them.

Langan employees that render first aid in office areas will have access to hand-washing facilities or restrooms. For first aid rendered at field locations, first aid kits will contain an appropriate antiseptic hand cleanser and clean cloth/paper towels or antiseptic towelettes. After using antiseptic hand cleansers or towelettes, employees must wash their hands with soap and running water as soon as feasible.

After administering first aid, potentially infectious materials, including towels, personnel protective equipment, clothes, and bandages, must be placed in a container, which prevents leakage during collection, handling, processing, storage, transport, or shipping. All PPE will be disposed of after use. Any equipment or working surfaces which were exposed to blood or potentially infectious materials due to an injury will be decontaminated prior to reuse.

Langan will make available the hepatitis B vaccine and vaccination series to all employees who have occupational exposure, and post-exposure evaluation and follow-up to all employees who have had an exposure incident. These services will be available to the employee at no cost to them through a medical provider.

17.3.7.2 Recordkeeping

Langan will maintain training and medical records for each employee with occupational exposure to blood or potentially infectious materials. Medical and training records will be maintained by Langan's H&S Department.

Training records will include the following:

- Dates of the training sessions.
- Contents or a summary of the training sessions.
- Names and qualifications of people conducting the training; and
- Names and job titles of all people attending the training sessions.

Training records must be maintained for 3 years from the date on which the training occurred. Medical records will be preserved and maintained for the duration of employment plus 30 years.

All records will be made available upon request to employees, the Assistant Secretary of Labor for Occupational Safety and Health, and the Director of the National Institute for Occupational Safety and Health Director of OSHA for examination and copying. Medical records must have written consent from the employee before releasing.

If Langan ceases to do business, all records must be transferred to the successor employer. The successor employer must receive and maintain these records.

If there is no successor, Langan will notify current employees of their rights to access records at least three months prior to the cessation of business.

18.0 RECORDKEEPING

The following is a summary of required health and safety logs, reports, and recordkeeping.

18.1 Field Change Authorization Request

Any changes to the work to be performed that are not included in the HASP will require an addendum that is approved by the Langan project manager and Langan HSM to be prepared. Approved changes will be reviewed with all field personnel at a safety briefing.

18.2 Medical and Training Records

Copies or verification of training (40-hour, 8-hour, supervisor, site-specific training, documentation of three-day on-the-job training (OJT), and respirator fit-test records) and medical clearance for site work and respirator use will be maintained in the office and available upon request. Records for all subcontractor employees must also be available upon request. All employee medical records will be maintained by HSM.

18.3 Onsite Log

A log of personnel on-site each day will be kept by the HSO or appointed substitute.

18.4 Daily Safety Meetings ("Tailgate Talks")

Completed safety briefing forms (Attachment H) will be maintained by the HSO or FTL.

18.5 Exposure Records

All personal monitoring results, laboratory reports, calculations, and air sampling data sheets are part of an employee exposure record. These records will be maintained by the HSO during site work. At the end of the project, they will be maintained according to 29 CFR 1910.1020.

18.6 Hazard Communication Program - SDS

Safety Data Sheets (SDS) have been obtained for applicable substances and are included in this HASP (Attachment D). Langan's written hazard communication program, in compliance with 29 CFR 1910.1200, is maintained by the HSM.

18.7 Documentation

Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan incident/injury hotline at 973-560-4699, and the Project Manager to report the incident or near miss. The Project Manager will contact the client or client representative. A written report must be completed and submitted HSM within 24 hours of the incident. For emergencies involving personnel injury and/or exposure, the employee will complete and submit the Langan incident/injury report to the Langan corporate health and safety manager as soon as possible following the incident. Accidents will be investigated in-depth to identify all causes and to recommend hazard control measures.

18.7.1 Accident and Injury Report Forms

18.7.1.1 Accident/Incident Report

All injuries, no matter how slight, must be reported to the FTL and the PM immediately. The accident/incident report forms, attached to Attachment C, will be filled out on all accidents by the applicable contractor supervision personnel, the FTL, or the HSO. Copies of all accident/incident reports must be kept on-site and available for review. Project personnel will be instructed on the location of the first aid station, hospital, and doctor and ambulance service near the job. The emergency telephone numbers will be conspicuously posted in site vehicles near the work zone. First aid supplies will be centrally located and conspicuously posted between restricted and nonrestricted areas to be readily accessible to all on the site.

18.7.1.2 First Aid Treatment Record

The forms will be used for recording all non-lost time injuries treated by the project first-aid attendant, the local physician or hospital will be entered in detail on this record. "Minor" treatment of scratches, cuts, etc. will receive the same recording attention as treatment of more severe injuries.

18.7.1.3 OSHA Form 300

An OSHA Form 300 will be kept at the Langan Corporate Office in Parsippany, New Jersey. All recordable injuries or illnesses will be recorded on this form. Subcontractor employers must also meet the requirements of maintaining an OSHA 300 form. The Incident Report form used to capture the details of work-related injuries/illnesses meets the requirements of the OSHA Form 301 (supplemental record) and must be maintained with the OSHA Form 300 for all recordable injuries or illnesses. Forms for recording OSHA work-related injuries and illnesses are included in Attachment C.

19.0 CONFINED SPACE ENTRY

Confined spaces are not anticipated at the Site during planned activities. If confined spaces are identified, the contractor must implement their own confined space program that are applicable to federal, state, and local regulations. Confined spaces **will not** be entered by Langan personnel.

20.0 HASP ACKNOWLEDGEMENT FORM

All Langan personnel and contractors will sign this HASP Compliance Agreement indicating that they have become familiar with this HASP and that they understand it and agree to abide by it.

Printed Name	Signature	Company	Date

TABLES

TABLE 1
TASK HAZARD ANALYSES

Task	Hazard	Description	Control Measures	First Aid
1.3.1 – 1.3.14	Contaminated Soil or Groundwater- Dermal Contact	Contaminated water spills on skin, splashes in eyes; contact with contaminated soil/fill during activities or sampling.	Wear proper PPE; follow safe practices, maintain safe distance from activities	See Table 2, seek medical attention as required
1.3.1 – 1.3.14	Lacerations, abrasions, punctures	Cutting bailer twine, pump tubing, acetate liners, etc. with knife; cuts from sharp site objects or previously cut piles, tanks, etc.; Using tools in tight spaces	Wear proper PPE; follow safe practices	Clean wound, apply pressure and/or bandages; seek medical attention as required.
1.3.1 – 1.3.14	Contaminated Media Inhalation	Opening drums, tanks, wells; vapors for non-aqueous phase liquids or other contaminated site media; dust inhalation during excavation; vapor accumulation in excavation	Follow air monitoring plan; have quick access to respirator, do not move or open unlabeled drums found at the site, maintain safe distance from activities	See Table 2, seek medical attention as required
1.3.1 – 1.3.14	Lifting	Improper lifting/carrying of equipment and materials causing strains	Follow safe lifting techniques. Langan employees are not to carry contractor equipment or materials	Rest, ice, compression, elevation; seek medical attention as required
1.3.1 – 1.3.14	Slips, trips, and falls	Slips, trips, and falls due to uneven surfaces, cords, steep slopes, debris, and equipment in work areas	Good housekeeping at site; constant awareness and focus on the task; avoid climbing on stockpiles; maintain safe distance from activities and excavations; avoid elevated areas over six feet unless fully accredited in fall protection and wearing an approved fall protection safety apparatus	Rest, ice, compression, elevation; seek medical attention as required
1.3.1 – 1.3.14	Noise	Excavation equipment, hand tools, drilling equipment.	Wear hearing protection; maintain safe distance from activities	Seek medical attention as required
1.3.1 – 1.3.14	Falling objects	Soil material, tools, etc. dropping from drill rigs, front-end loaders, etc.	Hard hats to be worn at all times while in work zones; maintain safe distance from activities and excavations	Seek medical attention as required
1.3.1 – 1.3.14	Underground/ overhead utilities	Excavation equipment, drill rig auger contacts underground object; boom touches overhead utility	"One Call" before dig; follow safe practices; confirm utility locations with contractor; wear proper PPE; maintain safe distance from activities and excavations	Seek medical attention as required
1.3.1 – 1.3.14	Insects (bees, wasps, hornet, mosquitoes, and spider)	Sings, bites	Insect Repellent; wear proper protective clothing (work boots, socks, and light-colored pants); field personnel who may have insect allergies (e.g., bee sting) should provide this information to the HSO or FSO prior to commencing work and will have allergy medication on site.	Seek medical attention as required
1.3.1 – 1.3.14	Vehicle traffic / Heavy Equipment Operation	Vehicles unable to see workers on site, operation of heavy equipment in tight spaces, equipment failure, malfunctioning alarms	Wear proper PPE, especially visibility vest; use a buddy system to look for traffic; rope off area of work with cones and caution tape or devices at points of hazard, maintain safe distance from activities and equipment	Seek medical attention as required

TABLE 2
CONTAMINANT HAZARDS OF CONCERN

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	1,1,2-Trichloro-1,2,2-trifluoroethane Chlorofluorocarbon-113 CFC-113 Freon® 113 Genetron® 113 Halocarbon 113 Refrigerant 113 TTE Frigen 113 TR Freon TF Trichlorotrifluoroethane	76-13-1	PID	1000 ppm 2000 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation skin, throat, drowsiness, dermatitis; central nervous system depression; dizziness, tremor, asphyxia, unconsciousness, cardiac arrhythmias, cardiac arrest; liquid: frostbite. In animals: cardiac arrhythmias, narcosis,	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	1,1'-Biphenyl 1,1-Biphenyl Biphenyl Phenyl benzene Diphenyl	92-52-4	None	1 mg/m^3 100 mg/m^3	Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, throat; headache, nausea, lassitude (weakness, exhaustion), numb limbs; liver damage	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	1,1-Dichloroethane Asymmetrical dichloroethane Ethylidene chloride 1,1-Ethylidene dichloride 1,1-DCA	75-34-3	PID	100 ppm 3000 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the skin; central nervous system depression; liver, kidney, lung damage	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	1,2,4,5-Tetramethylbenzene Durene	95-93-2	NA	None None	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	1,2,4-Trimethylbenzene	95-63-6	PID	None None	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	1,2-Dichlorobenzene o-DCB	95-50-1	PID	50 ppm 200 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eye, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	1,2-Dichloroethane Ethylene dichloride 1,2-DCA DCE[1] Ethane dichloride Dutch liquid, Dutch oil Freon 150 Glycol dichloride	107-06-2	PID	1 ppm 50 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin absorption, skin, and/or eye contact	irritation to the eyes, corneal opacity; central nervous system depression; nausea, vomiting; dermatitis; liver, kidney, cardiovascular system damage; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	1,3,5-Trimethylbenzene Mesitylene sym-Trimethylbenzene	108-67-8	PID	None None	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	1,3-Dichlorobenzene m-Dichlorobenzol; m-Phenylene dichloride m-dichlorobenzene m-DCB	541-73-1	PID	None None	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	1,4-Dichlorobenzene para-Dichlorobenzene p-Dichlorobenzene 1,4-Dichlorobenzene 1,4-DCB para-Dichlorobenzene p-Dichlorobenzene p-DCB PDB Paramoth Para crystals Paracide Dichlorocide	106-46-7	PID	75 ppm 150 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	1,4-Dioxane 1,4-Dioxacyclohexane [1,4]Dioxane p-Dioxane [6]-crown-2 Diethylene dioxide Diethylene ether Dioxan Dioxane 1,4-Dioxane	123-91-1	PID	100 ppm 500 ppm	Groundwater Soil Vapor	Inhalation, ingestion, skin, and/or eye contact	Irritant to eyes, skin, mucous membranes, and respiratory system. May be harmful by ingestion, skin absorption and inhalation	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	1H,1H,2H,2H-Perfluorooctane Sulfonic Acid 1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2FTS) 1,1,2,2-Tetrahydroperfluorooctane sulfonate 1H,1H,2H,2H-Perfluorooctanesulfonic acid, 2-(Perfluorohexyl)ethane-1-sulfonic acid 2-(Perfluorohexyl)ethanesulfonic acid 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-sulfonic acid 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanesulfonic acid THPFOS PFC 6:2 Fluorotelomer Sulfonic Acid, 6:2 FTS,H4PFOS 6:2 FTSA, 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluoro-1-octanesulfonic acid	27619-97-2	NA	None None	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	2,2,4-Trimethylpentane 2,2-Dimethylbutane 2,3-Dimethylbutane Triptane Tetramethylbutane Tetraethylmethane 2,3,3-Trimethylpentane 2,3,4-Trimethylpentane Tetra-tert-butylmethane 2,3-Dimethylhexane 2,5-Dimethylhexane	540-84-1	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, throat; dizziness, headache, nausea, dyspnea (breathing difficulty);	Get Immediate Medical Attention Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Do Not Induce Vomiting

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	2,4-Dimethylphenol 2,4-Xylenol m-Xylenol 1-Hydroxy-2,4-dimethylbenzene 2,4-Dimethylphenol 4-Hydroxy-1,3-dimethylbenzene 4,6-Dimethylphenol 1,3-Dimethyl-4-hydroxybenze	105-67-9	None	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; headache, narcosis, coma; dermatitis; in animals: liver, kidney damage	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	2-Butanone Ethyl methyl ketone MEK Methyl acetone Methyl ethyl ketone	78-93-3	PID	200 ppm 3000 ppm	Soil Groundwater Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose; headache; dizziness; vomiting; dermatitis	Eye: Irrigate immediately Skin: Water wash immediately Breathing: Fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.14	2-Chlorophenol 2-Chloro-1-hydroxybenzene 2-Hydroxychlorobenzene Ortho- Chlorophenol	95-57-8	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	2-Methylnaphthalene β-methylnaphthalene	91-57-6	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion or skin, absorption, eye contact	irritation to the skin, eyes, mucous membranes, and upper respiratory tract. It may also cause headaches, nausea, vomiting, diarrhea, anemia, jaundice, euphoria, dermatitis, visual disturbances, convulsions and comatose	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	4,4'-DDD Dichlorodiphenyldichloroethane 1,1'-(2,2-Dichloroethylidene)bis (4-chlorobenzene) p,p'-DDD	72-54-8	None	NA NA	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	4-Isopropyltoulene 1-Methyl-4-(1-methylethyl)benzene 4-Isopropyltoluene; 4-Methylcumene; 1-Methyl-4-isopropylbenzene Dolcymene Camphogen Paracymene Cymene p-Cymene p-Isopropyltoluene	99-87-6	PID	NA NA	Soil Groundwater Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; dermatitis; headache, narcosis, coma	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Acenaphthene 1,2-Dihydroacenaphthylene 1,8-Ethylenenaphthalene peri-Ethylenenaphthalene Naphthyleneethylene Tricyclododecapentaene	83-32-9	PID	NA NA	Soil	inhalation, ingestion, skin, and/or eye contact,	irritation to the skin, eyes, mucous membranes, and upper respiratory tract; If ingested, it can cause vomiting	Eye: Irrigate immediately Skin: Soap wash immediately, if redness or irritation develop, seek medical attention immediately Breathing: Move to fresh air Swallow: do not induce vomiting, seek medical attention immediately
1.3.1 – 1.3.14	Acenaphthylene Cycopental(de)naphthalene, Acenaphthalene	208-96-8	PID	NA NA	Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the skin, eyes, mucous membranes, and upper respiratory tract	Eye: Irrigate immediately, seek medical attention immediately, Skin: Soap wash immediately, if redness or irritation develop, seek medical attention immediately Breathing: Move to fresh air Swallow: do not induce vomiting, seek medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Acetone Dimethyl ketone Ketone propane 2-Propanone 3-Hexen-2-one	67-64-1	PID	1000 ppm 2500 ppm	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Aldrin 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-endo-1,4-exo-5,8-dimethanonaphthalene HHDN Octalene	309-00-2	PID	0.25 ppm 5 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	headache, dizziness; nausea, vomiting, malaise (vague feeling of discomfort); myoclonic jerks of limbs; colonic, tonic convulsions; coma; hematuria (blood in the urine), azotemia; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Alpha-BHC alpha-Hexachlorocyclohexane -alpha,2-alpha,3-beta,4-alpha,5-beta,6-beta-Hexachlorocyclohexane alpha-1,2,3,4,5,6-Hexachlorocyclohexane alpha-Benzenehexachloride α-1,2,3,4,5,6-hexachlorocyclohexane α-HCH α-Benzenehexachloride alpha-hexacloran(e) alpha-Lindane Alpha Hexachlorocyclohexane	319-84-6	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane possible carcinogenic, effects to liver, blood, and central nervous system	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Alpha-Chlordane Alpha Chlordane a-Chlordane	5103-71-9	None	0.5 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Aluminum	7429-90-5	None	0.5 mg/m3 50 mg/m3	Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, respiratory system	Eye: Irrigate immediately Breathing: Fresh air
1.3.1 – 1.3.14	Anthracene	120-12-7	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to the skin, eyes, mucous membranes, and upper respiratory tract, abdominal pain if ingested.	Eye: Irrigate immediately, seek medical attention immediately, Skin: Soap wash immediately, Breathing: Move to fresh air, refer to medical attention. Swallow: refer to medical attention
1.3.1 – 1.3.14	Antimony	7440-36-0	None	0.5 mg/m^3 50 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation skin, dermatitis; resp distress; diarrhea; muscle tremor, convulsions; possible gastrointestinal tract	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Aroclor 1254	11097-69-1	None	0.5 mg/m^3 5 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, chloracne	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Aroclor 1260	11096-82-5	None	0.5 mg/m^3 5 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, chloracne	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Aroclor 1268	11100-14-4	None	0.5 mg/m^3 5 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, chloracne	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Arsenic	NA	None	0.5 mg/m^3 NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation skin, dermatitis; resp distress; diarrhea; muscle tremor, convulsions; possible gastrointestinal tract	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Barium	10022-31-8	None	0.5 mg/m^3 50 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, upper respiratory system; skin, burns; gastroenteritis; muscle spasm; slow pulse	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Benzene Benzol Phenyl hydride Alkyl benzene isomers	71-43-2	PID	3.19 mg/m^3 1,595 mg/mg^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; lassitude (weakness, exhaustion) [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Benzo(a)anthracene Benzanthracene Benzanthrene 1,2-Benzanthracene Benzo[b]phenanthrene Tetraphene	56-55-3	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	dermatitis, bronchitis, [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Benzo(a)pyrene	50-32-8	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	dermatitis, bronchitis, [potential occupational carcinogen]	Eye: Irrigate immediately, seek medical attention Skin: Soap wash immediately. Breathing: move to fresh air. Swallow: Induce vomiting if conscious, seek medical attention immediately
1.3.1 – 1.3.14	Benzo(b)fluoranthene	205-99-2	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.14	Benzo(g,h,i)fluoranthene Benzo[ghi]fluoranthene 203-12-3 BENZO(GHI)FLUORANTHENE pentacyclo[8.8.0.02,7.03,17.013,18]octadeca-1(10),2(7),3,5,8,11,13(18),14,16-nonaene 2,13-Benzofuranthene 2,13-Benzofluoranthene	203-12-3	NA	NA NA	Soil	inhalation, skin, or eye contact, ingestion	dermatitis, bronchitis, [potential occupational carcinogen]	Eye: Irrigate immediately, seek medical attention Skin: Soap wash immediately. Breathing: move to fresh air. Swallow: Induce vomiting if conscious, seek medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Benzo(g,h,i)perylene Benzo(ghi)perylene	191-24-2	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.14	Benzo(k)fluoranthene	207-08-9	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.14	Benzoic acid Carboxybenzene E210 Dracylic acid Phenylmethanoic acid Benzenecarboxylic acid Benzoic acid isomer	65-85-0	None	NA NA	Groundwater Soil Vapor	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Beryllium	7440-41-7	None	0.002 mg/m^3 4 mg/m^3	Soil	inhalation, skin, and/or eye contact	berylliosis (chronic exposure): anorexia, weight loss, lassitude (weakness, exhaustion), chest pain, cough, clubbing of fingers, cyanosis, pulmonary insufficiency; irritation to the eyes; dermatitis; [potential occupational carcinogen]	Eye: Irrigate immediately Breathing: Fresh air
1.3.1 – 1.3.14	Beta BHC Beta Hexachlorocyclohexane 1-alpha,2-beta,3-alpha,4-beta,5-alpha,6-beta-Hexachlorocyclohexane beta-1,2,3,4,5,6-Hexachlorocyclohexane Beta-BHC	319-85-7	None	NA NA	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Beta-Endosulfan Beta Endosulfan Endosulfan II (beta) Endosulfan II	33213-65-9	None	None	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation skin; nausea, confusion, agitation, flushing, dry mouth, tremor, convulsions, headache; in animals: kidney, liver injury; decreased testis weight

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Bis(2-ethylhexyl)phthalate Bis(2-Ethylhexyl) Phthalate Di-sec octyl phthalate DEHP Di(2-ethylhexyl)phthalate Octyl phthalate bis(2-ethylexyl)phthalate	117-81-7	None	5 mg/m^3 5000 mg/m^3	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, mucous membrane; in animals: liver damage; teratogenic effects; [potential occupational carcinogen	Eye: Irrigate immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Cadmium	7440-43-9	None	0.005 mg/m^3 9 mg/m^3	Soil	inhalation, ingestion	pulmonary edema, dyspnea (breathing difficulty), cough, chest tightness, substernal (occurring beneath the sternum) pain; headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia (loss of the sense of smell), emphysema, proteinuria, mild anemia; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Calcium	7440-70-2	None	NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, upper resp tract; ulcer, perforation nasal septum; pneumonitis; dermatitis	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Carbazole 9-azafluorene Dibenzopyrrole Diphenylenimine diphenyleneimide	86-74-8	None	NA NA	Soil	inhalation, skin absorption (liquid), skin, and/or eye contact	irritation to eyes and skin, respiratory irritation	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.14	Carbon disulfide	75-15-0	PID	20 ppm 500 ppm	Soil Groundwater Vapor	inhalation, skin, or eye contact, ingestion	irritation to the eyes, skin, respiratory system	Eye: Irrigate immediately (liquid) Skin: Water flush immediately (liquid) Breathing: Respiratory support
1.3.1 – 1.3.14	Carbon tetrachloride Carbon chloride Carbon tet Freon® 10 Halon® 104 Tetrachloromethane	56-23-5	PID	10 ppm 200 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; central nervous system depression; nausea, vomiting; liver, kidney injury; drowsiness, dizziness, incoordination; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Chlorobenzene benzene chloride monochlorobenzene Phenyl chloride Chlorobenzol MCB	108-90-7	PID	75 ppm 1000 ppm	Groundwater Soil Vapor	inhalation, skin, or eye contact, ingestion	irritation to the eyes, skin, nose; drowsiness, incoordination; central nervous system depression; in animals: liver, lung, kidney injury	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Chloroform Methane trichloride Trichloromethane Chloro-3-methyl phenol	67-66-3	None	50 ppm 500 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; dizziness, mental dullness, nausea, confusion; headache, lassitude (weakness, exhaustion); anesthesia; enlarged liver; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Chromium Total Chromium Chromium, Total	7440-47-3	None	1.0 mg/m^3 250 mg/m^3	Groundwater Soil	inhalation absorption ingestion	irritation to eye, skin, and respiratory	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Chrysene Benzo[a]phenanthrene 1,2-Benzphenanthrene	218-01-9	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eye, skin, and respiratory, gastrointestinal irritation nausea, vomit, diarrhea [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	cis-1,2-Dichloroethylene cis-1,2-Dichloroethene	156-59-2	NA	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	Irritant to eyes, skin, mucous membranes, and respiratory system. May be harmful by ingestion, skin absorption and inhalation	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Cobalt	7440-48-4	None	0.1mg/m^3 20 mg/m^3	Soil	inhalation, ingestion, skin, and/or eye contact	Cough, dyspnea (breathing difficulty), wheezing, decreased pulmonary function; weight loss; dermatitis; diffuse nodular fibrosis; resp hypersensitivity, asthma	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Copper	7440-50-8	None	1.0 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, nose, metallic taste; dermatitis; anemia	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Cumene Cumol Isopropylbenzene 2-Phenyl propane 1-methylethy lbenzene Isopropyl Benzene	98-82-8	PID	50 ppm 900 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; dermatitis; headache, narcosis, coma	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Cyanide	57-12-5	None	5 mg/m^3 25 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	Exposure to cyanide can cause weakness, headaches, confusion, dizziness, fatigue, anxiety, sleepiness, nausea and vomiting. Breathing can speed up then become slow and gasping. Coma, and convulsions also occur. If copious amounts of cyanide have been absorbed by the body, the person usually collapses, and death can occur very quickly. Long-term exposure to lower levels of cyanide can cause skin, and nose irritation, itching, rashes and thyroid changes.	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Cyclohexane Benzene hexahydride Hexahydrobenzene Hexamethylene Hexanaphthene	110-82-7	PID	300 ppm 1300 ppm	Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, respiratory system; drowsiness; dermatitis; narcosis, coma	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	DDE 4,4-DDE 4,4′-DDE 1,1-bis-(4-chlorophenyl)-2,2-dichloroethene Dichlorodiphenyldichloroethylene p,p'-DDE	72-55-9	None	NA NA	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Oral ingestion of food is the primary source of exposure for the general population. Acute and chronic ingestion may cause nausea, vomiting, diarrhea, stomach pain, headache, dizziness, disorientation, tingling, sensation, kidney damage, liver damage, convulsions, coma, and death. 4,4' DDE may cross the placenta and can be excreted in breast milk	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	DDT 4,4-DDT 4,4′-DDT p,p′-DDT Dichlorodiphenyltrichloroethane 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane	50-29-3	None	1 mg/m^3 500 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Delta BHC Delta-BHC Delta-hexachlorocyclohexane Delta Hexachlorocyclohexane	319-86-8	None	0.5 mg/m^3 50 mg/m^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; headache; nausea; colonic convulsions; resp difficulty; cyanosis; aplastic anemia; muscle spasm; in animals: liver, kidney damage	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Dibenz(a,h)anthracene Dibenzo(a,h)anthracene Dibenzo[a,h]anthracene	53-70-3	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eyes, skin, respiratory, and digestion [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support PID Swallow: Medical attention immediately
1.3.1 – 1.3.14	Dibenzofuran	132-64-9	None	NA NA	Soil	inhalation, absorption	irritation to eyes, and skin	Eyes: Irrigate immediately Skin: Soap wash promptly.
1.3.1 – 1.3.14	Dichlorodifluoromethane Difluorodichloromethane, Fluorocarbon 12 Freon 12 Freon® 12 Genetron® 12 Halon® 122 Propellant 12 Refrigerant 12 Dichlorodifluromethane	75-71-8	None	1000 pp, 15,000 ppm	Groundwater Soil Vapor	inhalation, skin, and/or eye contact (liquid)	dizziness, tremor, asphyxia, unconsciousness, cardiac arrhythmias, cardiac arrest; liquid: frostbite	Eye: Frostbite Skin: Frostbite Breathing: Respiratory support
1.3.1 – 1.3.14	Dieldrin HEOD 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo exo-5,8-dimethanonaphthalene	60-57-1	PID	0.25 mg/m^3 50 mg/m^3	Groundwater Soil Water	inhalation, skin absorption, ingestion, skin, and/or eye contact	headache, dizziness; nausea, vomiting, malaise (vague feeling of discomfort), sweating; myoclonic limb jerks; colonic, tonic convulsions; coma; [potential occupational carcinogen]; in animals: liver, kidney damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Diesel Fuel automotive diesel fuel oil No. 2 distillate diesoline diesel oil diesel oil light diesel oil No. 1-D summer diesel	68334-30-5	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Endosulfan I Alpha Endosulfan	959-98-8	None	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation skin; nausea, confusion, agitation, flushing, dry mouth, tremor, convulsions, headache; in animals: kidney, liver injury; decreased testis weight	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Endosulfan sulfate 1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dimethanol, cyclic sulfate 6,7,8,9,10,10-hexachloro01,5,5a,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3,3-dioxide	1031-07-8	None	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	Hypersensitive to stimulation, sensation of prickling, tingling, or creeping on skin. Headache, dizziness, nausea, vomiting, incoordination, tremor, mental confusion, hyperexcitable state. In severe cases: convulsions, seizures, coma, and respiratory depression.	Eye: Irrigate immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Endrin 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo,endo-5,8-dimethanonaphthalene; Hexadrin	72-20-8	None	0.1 mg/m^3 2 mg/m^3	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	epileptiform convulsions; stupor, headache, dizziness; abdominal discomfort, nausea, vomiting; insomnia; aggressiveness, confusion; drowsiness, lassitude (weakness, exhaustion); anorexia; in animals: liver damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Ethanol Absolute alcohol Alcohol cologne spirit drinking alcohol ethane monoxide ethylic alcohol EtOH ethyl alcohol ethyl hydrate ethyl hydroxide ethylol grain alcohol hydroxyethane methylcarbinol	64-17-5	PID	1000 ppm 3300 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough; liver damage; anemia; reproductive, teratogenic effects	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.14	Ethyl benzene Ethylbenzene Ethylbenzol Phenylethane	100-41-4	PID	435 mg/m^3 3,472 mg/m^3	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Fluoranthene Benzo(j,k)fluorene	206-44-0	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.14	Fluorene	86-73-7	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention
1.3.1 – 1.3.14	Fuel Oil No. 2	68476-30-2	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Gasoline	8006-61-9	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; dermatitis; headache, lassitude (weakness, exhaustion), blurred vision, dizziness, slurred speech, confusion, convulsions; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Helium	7440-59-7	Helium Detector	NA NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support
1.3.1 – 1.3.14	Heptachlor	76-44-8	None	0.5 mg/m^3 35 mg/m^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	In animals: tremor, convulsions; liver damage; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Heptane n-Heptane	142-82-5	PID	500 ppm 750 ppm	Goundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	dizziness, stupor, incoordination; loss of appetite, nausea; dermatitis; chemical pneumonitis (aspiration liquid); unconsciousness	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Hexachlorobenzene Perchlorobenzene Pentachlorophenylchloride Benzene hexachloride Phenyl perchloryl HCB BHC	118-74-1	NA	NA NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	Irritating to eyes, skin, and mucous membranes. Prolonged periods of ingestion may cause cutaneous porphyria	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Hexavalent Chromium Chromium VI Chromium, Hexavalent	18540-29-9	None	1.0 mg/m^3 250 mg/m^3	Groundwater Soil	inhalation absorption ingestion	irritation to eye, skin, and respiratory	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Indeno(1,2,3-cd)pyrene Indeno(1,2,3-c,d)Pyrene Indeno[1,2,3-cd]Pyrene	193-39-5	None	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eyes, skin, respiratory, and digestion [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support Swallow: Medical attention immediately, wash mouth with water
1.3.1 – 1.3.14	Iron	7439-89-6	None	10 mg/m^3 NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; abdominal pain, diarrhea, vomiting	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Isopropyl alcohol Iso-Propyl Alcohol Carbinol IPA Isopropanol 2-Propanol sec-Propyl alcohol Rubbing alcohol Isopropylalcohol	67-63-0	PID	400 ppm 2000 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis	Eye: Irrigate immediately Skin: Water flush Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Lead	7439-92-1	None	0.050 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation to the eyes; hypertension	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Lindane Gamma BHC HCH ã-Hexachlorocyclohexane gamma isomer of 1,2,3,4,5,6-Hexachlorocyclohexane gamma-Hexachlorocyclohexane	58-89-9	None	0.5 mg/m^3 50 mg/m^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; headache; nausea; colonic convulsions; resp difficulty; cyanosis; aplastic anemia; muscle spasm; in animals: liver, kidney damage	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Magnesium	7439-95-4	None	15 mg/m^3 NA	Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, respiratory system; cough	Eye: Irrigate immediately Breathing: Fresh air

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Manganese	7439-96-5	None	5 mg/m^3 500 mg/m^3	Groundwater Soil	inhalation, ingestion	aerosol is irritating to the respiratory tract	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	m-Cresol meta-Cresol 3-Cresol m-Cresylic acid 1-Hydroxy-3-methylbenzene 3-Hydroxytoluene 3-Methylphenol 3-Methylphenols	108-39-4	PID	5 ppm 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; central nervous system effects: confusion, depression, resp failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin, burns; dermatitis; lung, liver, kidney, pancreas damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Mercury	7439-97-6	None	0.1 mg/m^3 10 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Methyl Chloride Chloromethane Monochloromethane Refrigerant-40 R-40	74-87-3	NA	100 ppm 2000 ppm	Groundwater Soil	inhalation, skin, and/or eye contact	dizziness, nausea, vomiting; visual disturbance, stagger, slurred speech, convulsions, coma; liver, kidney damage; liquid: frostbite; reproductive, teratogenic effects; [potential occupational carcinogen]	Eye: Frostbite Skin: Frostbite Breathing: Respiratory support
1.3.1 – 1.3.14	Methyl chloroform Chlorothene 1,1,1-Trichloroethane 1,1,1-Trichloroethane-(stabilized) 1,1,1-TCA 1,1,1-Trichbroethane TCA	71-55-6	PID	350 ppm 700 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin; headache, lassitude (weakness, exhaustion), central nervous system depression, poor equilibrium; dermatitis; cardiac arrhythmias; liver damage	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention
1.3.1 – 1.3.14	Methyl *tert*-butyl ether MTBE Methyl tertiary-butyl ether Methyl t-butyl ether tert-Butyl methyl ether tBME tert-BuOMe Methyl tert butyl ether	1634-04-4	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Methylene Chloride Dichloromethane Methylene dichloride	75-09-2	PID	25 ppm 2300 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; lassitude (weakness, exhaustion), drowsiness, dizziness; numb, tingle limbs; nausea; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	m-Xylenes 1,3-Dimethylbenzene m-Xylol Metaxylene	108-38-3 179601-23-1	PID	100 ppm 900 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; nausea, vomiting, abdominal pain; dermatitis	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Naphthalene Naphthalin Tar camphor White tar	91-20-3	PID	50 mg/m^3 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; hematuria (blood in the urine); dermatitis, optical neuritis	Eye: Irrigate immediately Skin: Molten flush immediately/solid-liquid soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	n-Butylbenzene Butylbenzene 1-phenylbutane	104-51-8	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin; dry nose, throat; headache; low blood pressure, tachycardia, abnormal cardiovascular system stress; central nervous system, hematopoietic depression; metallic taste; liver, kidney injury	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	n-Hexane Hexane, Hexyl hydride, normal-Hexane	110-54-3	PID	500 ppm 1100 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, nose; nausea, headache; peripheral neuropathy: numb extremities, muscle weak; dermatitis; dizziness; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Nickel	7440-02-0	None	NA 10 mg/m^3	Groundwater Soil	ion, ingestion, skin, and/or eye contact	sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen]	Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Non-Flammable Gas Mixture CALGAS (Equipment Calibration Gas : Oxygen Methane Hydrogen Sulfide Carbon Monoxide Nitrogen	 7782-44-7 74-82-8 7783-08-4 830-08-0 7727-37-9	Multi-Gas PID	 NA/NA NA/NA 10/100 ppm 50/1200 ppm NA/NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Non-Flammable Gas Mixture CALGAS (Equipment Calibration Gas : Oxygen Isobutylene Nitrogen	 7782-44-7 115-11-7 7727-37-9	PID	 NA/NA NA/NA NA/NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support
1.3.1 – 1.3.14	n-Propylbenzene Isocumene Propylbenzene 1-Phenylpropane 1-Propylbenzene Phenylpropane Propylbenzene-n	103-65-1	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin; dry nose, throat; headache; low blood pressure, tachycardia, abnormal cardiovascular system stress; central nervous system, hematopoietic depression; metallic taste; liver, kidney injury	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	o-Cresol ortho-Cresol 2-Cresol o-Cresylic acid 1-Hydroxy-2-methylbenzene 2-Hydroxytoluene 2-Methyl phenol 2-Methylphenol	95-48-7	PID	5 ppm 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; central nervous system effects: confusion, depression, resp failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin, burns; dermatitis; lung, liver, kidney, pancreas damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	o-Xylenes 1,2-Dimethylbenzene ortho-Xylene o-Xylol	95-47-6 179601-23-1	PID	100 ppm 900 ppm	Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; nausea, vomiting, abdominal pain; dermatitis	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	p-Cresol para-Cresol 4-Cresol p-Cresylic acid 1-Hydroxy-4-methylbenzene 4-Hydroxytoluene 4-Methylphenol 4-Methylphenols	106-44-5	PID	5 ppm 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; central nervous system effects: confusion, depression, resp failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin, burns; dermatitis; lung, liver, kidney, pancreas damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediatelym
1.3.1 – 1.3.14	p-Diethylbenzene 1,4-Diethylbenzene 1,4-Diethyl benzene	105-05-5	PID	None None	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, respiratory system; skin, burns; in animals: central nervous system depression	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Pentachlorophenol PCP; Penta; 2,3,4,5,6-Pentachlorophenol	87-86-5	PID	0.5 mg/m^3 2.5 mg/m^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; sneezing, cough; lassitude (weakness, exhaustion), anorexia, weight loss; sweating; headache, dizziness; nausea, vomiting; dyspnea (breathing difficulty), chest pain; high fever; dermatitis	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Perfluorobutanesulfonic acid FC-98 Nonaflate Nonafluorobutanesulphonic acid Perfluorobutanesulfonic Acid Perfluorobutane sulfonate PFBS	375-73-5	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Perfluorobutanoic Acid Heptafluorobutyric acid Heptafluorobutanoic acid Perfluorobutyric acid PFBA	375-22-4	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Perfluorodecanoic acid PFDA	335-76-2	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Perfluoroheptanoic acid Perfluoroheptanoic acid Tridecafluoroheptanoic acid PFHpA	375-85-9	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Perfluorohexanesulfonic Acid perfluorohexanesulfonate perfluorohexanesulfonic acid Perfluorohexane-1-sulphonic acid PFHxS	355-46-4	NA	None None	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Perfluorohexanoic Acid PFHxA	307-24-4	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Perfluoronoanoic Acid Perfluorononanoic Acid PFNA perfluoro-n-nonanoic acid perfluorononanoate	375-95-1	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Perfluorooctanesulfonic Acid PFOS	1763-23-1	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Perfluorooctanoic Acid PFOA pentadecafluorooctanoic acid perfluorooctanoate perfluorocaprylic acid	335-67-1	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Perfluoropentanoic Acid PFPeA	2706-90-3	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Perfluoroundecanoic Acid PFUnA PFUnDA Perfluoroundecanoic Acid Henicosafluoroundecanoic Acid	2058-94-8	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	p-Ethyltoluene 4-Ethyltoluene 1-ethyl-4-methyl-benzene 1-methyl-4-ethylbenzene	622-96-8	NA	NA NA	Soil	ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Phenanthrene	85-01-8	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.14	Phenol Carbolic acid Hydroxybenzene, Monohydroxybenzene Phenyl alcohol Phenyl hydroxide	108-95-2	PID	5 ppm 250 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; anorexia, weight loss; lassitude (weakness, exhaustion), muscle ache, pain; dark urine, skin, burns; dermatitis; tremor, convulsions, twitching	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Potassium	7440-09-7	None	NA NA	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact inhalation, ingestion, skin, and/or eye contact	eye: Causes eye burns. Skin: Causes skin, burns. Reacts with moisture in the skin, to form potassium hydroxide and hydrogen with heat. ingestion: Causes gastrointestinal tract burns. inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. inhalation may be fatal because of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.	Eyes: Get medical aid immediately Skin: Get medical aid immediately. Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Ingestion: If victim is conscious and alert, give 2-4 full cups of milk or water. Get medical aid immediately. inhalation: Get medical aid immediately.
1.3.1 – 1.3.14	p-Xylenes 1,4-Dimethylbenzene para-Xylene p-Xylol	106-42-3	PID	100 ppm 900 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; nausea, vomiting, abdominal pain; dermatitis	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Pyrene benzo[def]phenanthrene	129-00-0	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.14	sec-Butylbenzene 2-phenylbutane	135-98-8	PID	10 ppm 100 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat. inhalation: nausea or vomiting	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Selenium	7782-49-2	None	1 mg/m^3 0.2 mg/m^3	Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; visual disturbance; headache; chills, fever; dyspnea (breathing difficulty), bronchitis; metallic taste, garlic breath, gastrointestinal disturbance; dermatitis; eye, skin, burns; in animals: anemia; liver necrosis, cirrhosis; kidney, spleen damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Silver	7440-22-4	None	0.01 mg/m^3 10 mg/m^3	Soil	inhalation, ingestion, skin, and/or eye contact	blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin; gastrointestinal disturbance	Eye: Irrigate immediately Skin: Water flush Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Silvex 2-(2,4,5-Trichlorophenoxy)propionic acid Fenoprop 2,4,5-TP Acid 2,4,5-TP	93-72-1	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, respiratory system; headache, lassitude (weakness, exhaustion), dizziness, confusion, malaise (vague feeling of discomfort), drowsiness, unsteady gait; narcosis; defatting dermatitis; liver injury; reproductive effects	Eye: Irrigate immediately Skin: Water flush Breathing: Respiratory support Swallow: Medical attention
1.3.1 – 1.3.14	Sodium	7440-23-5	None	NA NA	Groundwater Soil	ion, ingestion, skin, and/or eye contact	sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen]	Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	tert-Butylbenzene *t*-Butylbenzene 2-Methyl-2-phenylpropane Pseudobutylbenzene	98-06-6	PID	10 ppm NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	eye, skin, irritation; dry nose, throat; headaches; low blood pressure, tachycardia; abnormal cardiovascular system; central nervous system depression; hematopoietic depression	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Tetrachloroethylene Perchlorethylene Perchloroethylene PCE Perk Tetrachlorethylene Tetrachloroethene	127-18-4	PID	100 ppm 150 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin, erythema (skin, redness); liver damage; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Tetrahydrofuran Diethylene oxide 1,4-Epoxybutane Tetramethylene oxide THF	109-99-9	PID	200 ppm 2000 ppm	Groundwater Soil Vapor	inhalation, skin, and/or eye contact, ingestion	irritation to the eyes, upper respiratory system; nausea, dizziness, headache, central nervous system depression	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Thallium	7440-28-0	None	0.1 mg/m^3 15 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	nausea, diarrhea, abdominal pain, vomiting; ptosis, strabismus; peri neuritis, tremor; retrosternal (occurring behind the sternum) tightness, chest pain, pulmonary edema; convulsions, chorea, psychosis; liver, kidney damage; alopecia; paresthesia legs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Toluene Methyl benzene Methyl benzol Phenyl methane Toluol	108-88-3	PID	200 ppm 500 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, paresthesia; dermatitis	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Total PCBs Chlorodiphenyl (42% chlorine) Aroclor® 1242 PCB Polychlorinated biphenyl	53469-21-9	None	0.5 mg/m^3 5 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, chloracne	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Total Xylenes Dimethylbenzene Xylol	1330-20-7	PID	100 ppm 900 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; nausea, vomiting, abdominal pain; dermatitis	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Trans-1,2-Dichloroethene trans-1,2-Dichloroethylene tDEC trans-Acetylene dichloride	156-60-5	PID	200 ppm 4000 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	Irritant to eyes, skin, mucous membranes, and respiratory system. May be harmful by ingestion, skin absorption and inhalation	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Trichloroethylene Trichloroetheneylenes Ethylene trichloride TCE Trichloroethene Trilene	79-01-6	PID	100 ppm 1000 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Trichlorofluoromethane Fluorotrichloromethane Freon® 11 Monofluorotrichloromethane Refrigerant 11 Trichloromonofluoromethane Freon 11	75-69-4	PID	1000 ppm 2000 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	incoordination, tremor; dermatitis; cardiac arrhythmias, cardiac arrest; asphyxia; liquid: frostbite	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Trivalent Chromium Chromium III Chromium, Trivalent	NA	None	1.0 mg/m^3 250 mg/m^3	Groundwater Soil	inhalation absorption ingestion	irritation to eye, skin, and respiratory	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Vanadium	7440-62-2	None	0.1 mg/m3 15 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	nausea, diarrhea, abdominal pain, vomiting; ptosis, strabismus; peri neuritis, tremor; retrosternal (occurring behind the sternum) tightness, chest pain, pulmonary edema; convulsions, chorea, psychosis; liver, kidney damage; alopecia; paresthesia legs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Vinyl Chloride Chloroethene Chloroethylen Ethylene monochloride Monochloroethene Monochloroethylene VC Vinyl chloride monomer (VCM)	75-01-4	PID	1 ppm NA	Groundwater Soil Vapor	inhalation, skin, and/or eye contact (liquid)	lassitude (weakness, exhaustion); abdominal pain, gastrointestinal bleeding; enlarged liver; pallor or cyanosis of extremities; liquid: frostbite; [potential occupational carcinogen]	Eye: Frostbite Skin: Frostbite Breathing: Respiratory support
1.3.1 – 1.3.14	Vinylidene chloride 1,1-DCE 1,1-Dichloroethene 1,1-Dichloroethylene VDC Vinylidene chloride monomer Vinylidene dichloride	75-35-4	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, throat; dizziness, headache, nausea, dyspnea (breathing difficulty); liver, kidney disturbance; pneumonitis; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.14	Volatile Organic Compounds VOCs	NA	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, throat; dizziness, headache, nausea, dyspnea (breathing difficulty); liver, kidney disturbance; pneumonitis; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.14	Zinc	7440-62-2	None	15 mg/m^3 500 mg/m^3	Groundwater Soil	inhalation	chills, muscle ache, nausea, fever, dry throat, cough; lassitude (weakness, exhaustion); metallic taste; headache; blurred vision; low back pain; vomiting; malaise (vague feeling of discomfort); chest tightness; dyspnea (breathing difficulty), rales, decreased pulmonary function	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

EXPLANATION OF ABBREVIATIONS

PID = Photoionization Detector
PEL = Permissible Exposure Limit (8-hour Time Weighted Average)
IDLH = Immediately Dangerous to Life and Health
ppm = part per million
mg/m^3 = milligrams per cubic meter
500 mg/m^3

TABLE 3
SUMMARY OF MONITORING EQUIPMENT

Instrument	Operation Parameters
Photoionization Detector (PID)	**Hazard Monitored:** Many organic and some inorganic gases and vapors. **Application:** Detects total concentration of many organic and some inorganic gases and vapors. Some identification of compounds is possible if more than one probe is measured. **Detection Method:** Ionizes molecules using UV radiation; produces a current that is proportional to the number of ions. **General Care/Maintenance:** Recharge or replace battery. Regularly clean lamp window. Regularly clean and maintain the instrument and accessories. **Typical Operating Time:** 10 hours. 5 hours with strip chart recorder.
Oxygen Meter	**Hazard Monitored:** Oxygen (O_2). **Application:** Measures the percentage of O_2 in the air. **Detection Method:** Uses an electrochemical sensor to measure the partial pressure of O_2 in the air and converts the reading to O_2 concentration. **General Care/Maintenance:** Replace detector cell according to manufacturer's recommendations. Recharge or replace batteries prior to explanation of the specified interval. If the ambient air is less than 0.5% C O_2, replace the detector cell frequently. **Typical Operating Time:** 8 – 12 hours.
Additional equipment (if needed, based on site conditions)	
Combustible Gas Indicator (CGI)	**Hazard Monitored:** Combustible gases and vapors. **Application:** Measures the concentration of combustible gas or vapor. **Detection Method:** A filament, usually made of platinum, is heated by burning the combustible gas or vapor. The increase in heat is measured. Gases and vapors are ionized in a flame. A current is produced in proportion to the number of carbon atoms present. **General Care/Maintenance:** Recharge or replace battery. Calibrate immediately before use. **Typical Operating Time:** Can be used for as long as the battery lasts, or for the recommended interval between calibrations, whichever is less.
Flame Ionization Detector (FID) with Gas Chromatography Option *(i.e., Foxboro Organic Vapor Analyzer (OVA))*	**Hazard Monitored:** Many organic gases and vapors (approved areas only). **Application:** In survey mode, detects the concentration of many organic gases and vapors. In gas chromatography (GC) mode, identifies and measures specific compounds. In survey mode, all the organic compounds are ionized and detected at the same time. In GC mode, volatile species are separated. **General Care/Maintenance:** Recharge or replace battery. Monitor fuel and/or combustion air supply gauges. Perform routine maintenance as described in the manual. Check for leaks. **Typical Operating Time:** 8 hours; 3 hours with strip chart recorder.
Potable Infrared (IR) Spectrophotometer	**Hazard Monitored:** Many gases and vapors. **Application:** Measures concentration of many gases and vapors in air. Designed to quantify one or two component mixtures. **Detection Method:** Passes different frequencies of IR through the sample. The frequencies absorbed are specific for each compound. **General Care/Maintenance:** As specified by the manufacturer.

Instrument	Operation Parameters
Direct Reading Colorimetric Indicator Tube	**Hazard Monitored:** Specific gas and vapors. **Application:** Measures concentration of specific gases and vapors. **Detection Method:** The compound reacts with the indicator chemical in the tube, producing a stain whose length or color change is proportional to the compound's concentration. **General Care/Maintenance:** Do not use a previously opened tube even if the indicator chemical is not stained. Check pump for leaks before and after use. Refrigerate before use to maintain a shelf life of about 2 years. Check expiration dates of tubes. Calibrate pump volume at least quarterly. Avoid rough handling which may cause channeling.
Aerosol Monitor	**Hazard Monitored:** Airborne particulate (dust, mist, fume) concentrations. **Application:** Measures total concentration of semi-volatile organic compounds, PCBs, and metals. **Detection Method:** Based on light-scattering properties of particulate matter. Using an internal pump, air sample is drawn into the sensing volume where near infrared light scattering is used to detect particles. **General Care/Maintenance:** As specified by the mfr. Also, the instrument must be calibrated with particulates of a size and refractive index similar to those to be measured in the ambient air.
Monitox	**Hazard Monitored:** Gases and vapors. **Application:** Measures specific gases and vapors. **Detection Method:** Electrochemical sensor specific for the chemical species in question. **General Care/Maintenance:** Moisten sponge before use; check the function switch; change the battery when needed.
Gamma Radiation Survey Instrument	**Hazard Monitored:** Gamma Radiation. **Application:** Environmental radiation monitor. **Detection Method:** Scintillation detector. **General Care/Maintenance:** Must be calibrated annually at a specialized facility. **Typical Operating Time:** Can be used for as long as the battery lasts, or for the recommended interval between calibrations, whichever is less.

TABLE 4
INSTRUMENTATION ACTION LEVELS

Photoionization Detector Action Levels	**Action Required**
Background to 5 parts per million (ppm)[1]	No respirator needed; no further action
>5ppm but </= 15 ppm at the perimeter of the work area	• Work temporarily halted and monitoring continues. • If instantaneous readings decrease below 5 ppm above background, work activities will resume with continued monitoring
>5ppm but </= 25 ppm at the downwind perimeter of the hot zone	• Work activities will be halted. • Source of vapors identified. • Corrective actions taken to abate emissions. • Continued monitoring. • Workers will don appropriate respirators and work can resume if vapor levels 200 feet downwind or the hot zone or half the distance to the nearest potential receptor or residential or commercial structure, whichever is less – but in no case less than 20 feet – is below 5 ppm above background for the 15-minute average
>25ppm at the parameter of the hot zone	Activities will shut down

Particulate Monitoring Action Levels	**Action Required**
Background to 100 micrograms per cubic meter (µg/m³)[2], no dust observed	No further action
Background to 100 µg/m³, dust observed leaving the work area	Dust suppression must be employed.
100 to 150 µg/m³ at the downwind parameter of the hot zone	• Work activities will be halted. • Source of dust identified. • Dust suppression activities initiated. • Corrective actions taken to abate emissions. • Continued monitoring. • Workers will don appropriate respirators. • Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m³ of the upwind level and in preventing visible dust migration.
>150 µg/m³ at the parameter of the hot zone	Activities will shut down

[1] VOC concentrations are 15-minute averages above site background (upwind parameter)
[2] Particulate concentrations are 15-minute averages above site background (upwind parameter)

TABLE 5
EMERGENCY NOTIFICATION LIST

ORGANIZATION	CONTACT	TELEPHONE
Local Police Department		911
Local Fire Department		911
Ambulance/Rescue Squad		911
Hospital	BronxCare Health System (Fulton Division)	911 or 718-590-1800
Langan Incident Hotline		973-560-4699
Medical Treatment Hotline	WorkCare™	911 or 888-449-7757
Langan Environmental Project Manager	Sarah Fernholz	510-910-8256 (cell)
Langan Construction Health and Safety Manager (HSM)	Tony Moffa	215-756-2523 (cell)
Langan Health & Safety Officer (HSO)	William Bohrer	410-984-3068 (cell)
Langan Field Team Leader (FTL)	To Be Determined	
Client's Representative	Alex Eney	914-659-6277
National Response Center (NRC)		800-424-8802
Chemical Transportation Emergency Center (Chemtrec)		800-424-9300
Center for Disease Control (CDC)		404-639-3534
EPA (RCRA Superfund Hotline)		800-424-9346
TSCA Hotline		202-554-1404
Poison Control Center		800-222-1222

Immediately following an injury, unless immediate emergency medical treatment is required, the injured employee must contact WorkCare - Incident Intervention® at 888-449-7787.

For all other incidents or near misses, unless emergency response is required, either the employee or a coworker must contact the Langan Incident Hotline at 973-560-4699.

TABLE 6
SUGGESTED FREQUENCY OF PHYSIOLOGICAL MONITORINGFOR FIT AND ACCLIMATED WORKERS[A]

Adjusted Temperature[b]	Normal Work Ensemble[c]	Impermeable Ensemble
90°F or above (32.2°C) or above	After each 45 min. of work	After each 15 min. of work
87.5°F (30.8°-32.2°C)	After each 60 min. of work	After each 30 min. of work
82.5°-87.5°F (28.1°-30.8°C)	After each 90 min. of work	After each 60 min. of work
77.5°-82.5°F (25.3°-28.1°C)	After each 120 min. of work	After each 90 min. of work
72.5°-77.5°F (22.5°-25.3°C)	After each 150 min. of work	After each 120 min. of work

a For work levels of 250 kilocalories/hour.

b Calculate the adjusted air temperature (ta adj) by using this equation: ta adj ^{o}F = ta ^{o}F + (13 x % sunshine). Measure air temperature (ta) with a standard mercury-in-glass thermometer, with the bulb shielded from radiant heat. Estimate percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow. (100 percent sunshine = no cloud cover and a sharp, distinct shadow; 0 percent sunshine = no shadows.)

c A normal work ensemble consists of cotton coveralls or other cotton clothing with long sleeves and pants.

TABLE 7
HEAT INDEX

	ENVIRONMENTAL TEMPERATURE (Fahrenheit)										
	70	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**
RELATIVE HUMIDITY	**APPARENT TEMPERATURE***										
0%	64	69	73	78	83	87	91	95	99	103	107
10%	65	70	75	80	85	90	95	100	105	111	116
20%	66	72	77	82	87	93	99	105	112	120	**130**
30%	67	73	78	84	90	96	104	113	123	**135**	**148**
40%	68	74	79	86	93	101	110	123	**137**	**151**	
50%	69	75	81	88	96	107	120	**135**	**150**		
60%	70	76	82	90	100	114	**132**	**149**			
70%	70	77	85	93	106	124	**144**				
80%	71	78	86	97	113	**136**					
90%	71	79	88	102	122						
100%	72	80	91	108							

*Combined Index of Heat and Humidity...what it "feels like" to the body

Source: National Oceanic and Atmospheric Administration

How to use Heat Index:

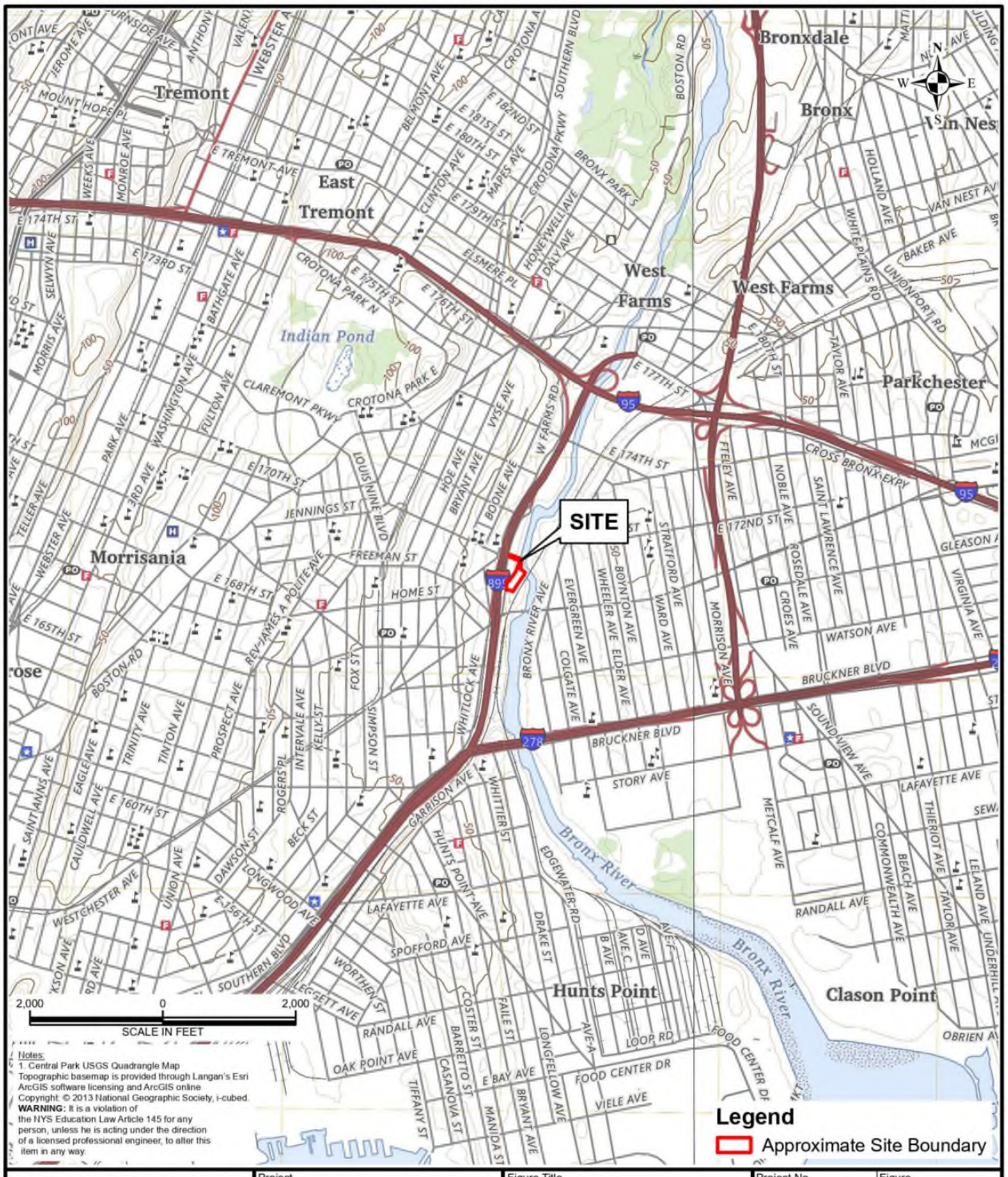
1. Across top locate Environmental Temperature
2. Down left side locate Relative Humidity
3. Follow across and down to find Apparent Temperature
4. Determine Heat Stress Risk on chart at right

Note: Exposure to full sunshine can increase Heat Index values by up to 15 degrees F.

Apparent Temperature	**Heat Stress Risk with Physical Activity and/or Prolonged Exposure**
90-105	Heat Cramps or Heat Exhaustion Possible
105-130	Heat Cramps or Heat Exhaustion Likely, Heat Stroke Possible
>130	Heatstroke Highly Likely

FIGURES

FIGURE 1
SITE LOCATION MAP



LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 368 Ninth Avenue, 8th Floor New York, NY 10001-2727 T: 212.479.5400 F: 212.479.5444 www.langan.com	Project **1480 SHERIDAN EXPRESSWAY SOUTHERN LOT** BLOCK No. 3017, P/O LOT No. 29 BRONX NEW YORK	Figure Title **SITE LOCATION MAP**	Project No. 170970907 Date 5/5/2026 Scale 1" = 2,000 feet Drawn By GS	Figure A-1

Path: \\langan.com\data\NYC\data9\170970901\Project Data\ArcGIS\APRX\170970901\170970901.aprx

© 2026 Langan

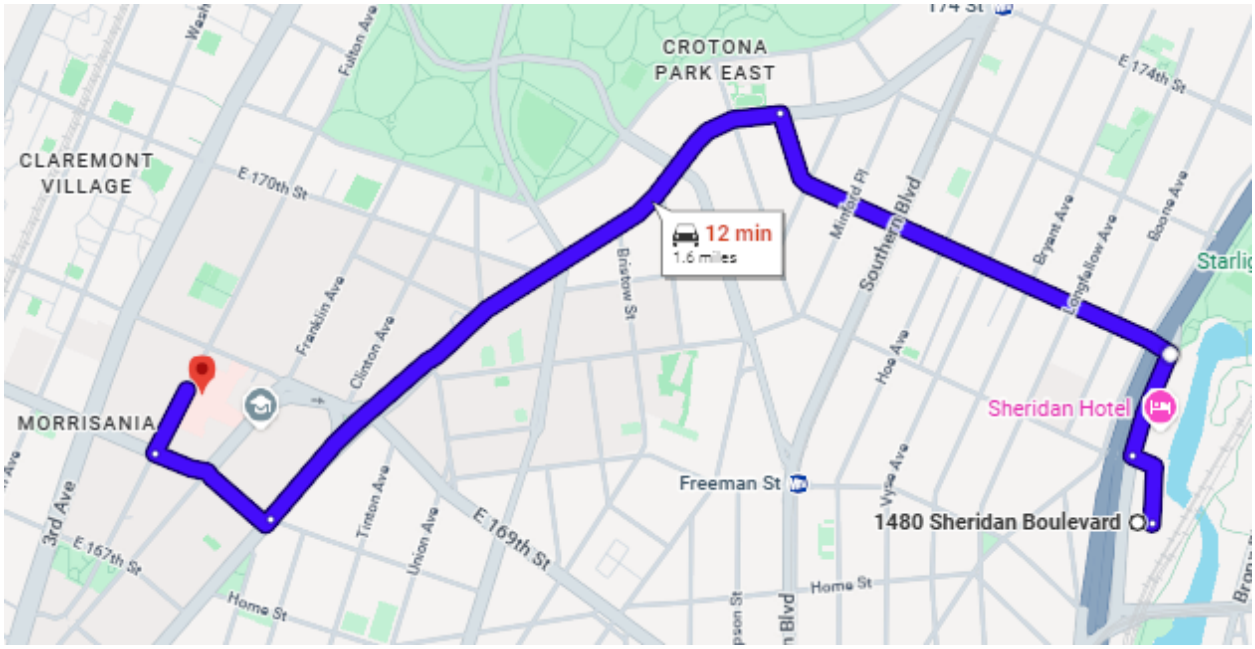
FIGURE 2
HOSPITAL ROUTE PLAN

Hospital Location: **BronxCare Health System (Fulton Division)**
1276 Fulton Avenue
Bronx, New York
718-590-1800

START: 1480 Sheridan Boulevard, Bronx, New York

1. Turn right onto Edgewater Rd
2. Turn left onto E 172nd St
3. Turn left onto Boston Rd/Edward A. Stevenson Blvd
4. Turn right onto E 168th St
5. Turn right at the 2nd cross street onto Fulton Ave, destination will be on the right.

END: BronxCare Health System (Fulton Division), 1276 Fulton Avenue, Bronx, New York



ATTACHMENTS

ATTACHMENT A

STANDING ORDERS

STANDING ORDERS

GENERAL

- No smoking, eating, or drinking in this work zone.
- Upon leaving the work zone, personnel will thoroughly wash their hands and face.
- Minimize contact with contaminated materials through proper planning of work areas and decontamination areas, and by following proper procedures. Do not place equipment on the ground. Do not sit on contaminated materials.
- No open flames in the work zone.
- Only properly trained and equipped personnel are permitted to work in potentially contaminated areas.
- Always use the appropriate level of personal protective equipment (PPE).
- Maintain close contact with your buddy in the work zone.
- Contaminated material will be contained in the Exclusion Zone (EZ).
- Report any unusual conditions.
- Work areas will be kept clear and uncluttered. Debris and other slip, trip, and fall hazards will be removed as frequently as possible.
- The number of personnel and equipment in the work zone will be kept to an essential minimum.
- Be alert to the symptoms of fatigue and heat/cold stress, and their effects on the normal caution and judgment of personnel.
- Conflicting situations which may arise concerning safety requirements and working conditions must be addressed and resolved quickly by the site HSO.

TOOLS AND HEAVY EQUIPMENT

- Do not, under any circumstances, enter or ride in or on any backhoe bucket, materials hoist, or any other device not specifically designed to carry passengers.
- Loose-fitting clothing or loose long hair is prohibited around moving machinery.
- Ensure that heavy equipment operators and all other personnel in the work zone are using the same hand signals to communicate.
- Drilling/excavating within 10 feet in any direction of overhead power lines is prohibited.
- The locations of all underground utilities must be identified and marked out prior to initiating any subsurface activities.
- Check to ensure that the equipment operator has lowered all blades and buckets to the ground before shutting off the vehicle.
- If the equipment has an emergency stop device, have the operator show all personnel its location and how to activate it.
- Help the operator ensure adequate clearances when the equipment must negotiate in tight quarters; serve as a signal operator to direct backing, as necessary.
- Ensure that all heavy equipment that is used in the Exclusion Zone is kept in that zone until the job is done and that such equipment is completely decontaminated before moving it into the clean area of the work zone.
- Samplers must not reach into or get near rotating equipment such as the drill rig. If personnel must work near any tools that could rotate, the equipment operator must completely shut down the rig prior to initiating such work. It may be necessary to use a remote sampling device.

ATTACHMENT B

DECONTAMINATION PROCEDURES

PERSONNEL DECONTAMINATION

LEVEL C DECONTAMINATION

Station 1:	Equipment Drop	1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up within this area.
Station 2:	Outer Garment, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves, and chemical-resistant splash suit with decon solution or detergent and water. Rinse off using copious amounts of water.
Station 3:	Outer Boot and Glove Removal	3. Remove outer boots and gloves. Deposit in container with plastic liner.
Station 4:	Canister or Mask Change	4. If worker leaves Exclusion Zone to change canister (or mask), this is the last step in the decontamination procedure. Worker's canister is exchanged, new outer gloves and boot covers donned, joints taped, and worker returns to duty.
Station 5:	Boot, Gloves and Outer Garment Removal	5. Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
Station 6:	Face piece Removal	6. Face piece is removed (avoid touching face with fingers). Face piece deposited on plastic sheets.
Station 7:	Field Wash	7. Hands and face are thoroughly washed. Shower as soon as possible.

LEVEL D DECONTAMINATION

Station 1:	Equipment Drop	1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, cool down stations may be set up within this area.
Station 2:	Outer Garment, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves and chemical-resistant splash suit with decon solution or detergent and water. Rinse off using copious amounts of water.
Station 3:	Outer Boot and Glove Removal	3. Remove outer boots and gloves. Deposit in container with plastic liner.
Station 4:	Boot, Gloves and Outer Garment Removal	4. Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
Station 5:	Field Wash	5. Hands and face are thoroughly washed. Shower as soon as possible.

EQUIPMENT DECONTAMINATION

GENERAL:

Equipment to be decontaminated during the project may include tools, monitoring equipment, respirators, sampling containers, laboratory equipment, and drilling equipment.

All decontamination will be done by personnel in protective gear, appropriate for the level of decontamination, as determined by the site HSO. The decontamination work tasks will be split or rotated among support and work crews.

Depending on site conditions, backhoes and pumps may be decontaminated over a portable decontamination pad to contain wash water; or wash water may be allowed to run off into a storm sewer system. Equipment needed may include a steam generator with high-pressure water, empty drums, screens, screen support structures, and shovels. Drums will be used to hold contaminated wash water pumped from the lined pit. These drums will be labeled as such.

Miscellaneous tools and equipment will be dropped into a plastic bucket, tub, or other containers. They will be brushed off and rinsed with a detergent solution, and finally rinsed with clean water.

MONITORING EQUIPMENT:

Monitoring equipment will be protected as much as possible from contamination by draping, masking, or otherwise covering as many of the instruments as possible with plastic without hindering the operation of the unit. The PID, HNu, or OVA meter, for example, can be placed in a clear plastic bag, which allows reading of the scale and operation of knobs. The probes can be partially wrapped keeping the sensor tip and discharge port clear.

The contaminated equipment will be taken from the drop area and the protective coverings removed and disposed of in the appropriate containers. Any dirt or obvious contamination will be brushed or wiped with a disposable paper wipe.

RESPIRATORS:

Respirators will be cleaned and disinfected after every use. Taken from the drop area, the masks (with the cartridges removed and disposed of with other used disposable gear) will be immersed in a cleaning solution and scrubbed gently with a soft brush, followed by a rinse in plain warm water, and then allowed to air dry. In the morning, new cartridges will be installed. Personnel will inspect their own masks for serviceability prior to donning them. And, once the mask is on, the wearer will check the respirator for leakage using the negative and positive pressure fit check techniques.

ATTACHMENT C

EMPLOYEE EXPOSURE/INJURY INCIDENT REPORT

EMPLOYEE INCIDENT/INJURY REPORT
LANGAN ENGINEERING & ENVIRONMENTAL SERVICES

(Complete and return to Tony Moffa in the Doylestown Office)

Affected Employee Name: _____ Date: _____

Incident type: ☐ Injury ☐ Report Only/No Injury
☐ Near Miss ☐ Other: _____

EMPLOYEE INFORMATION (Person completing Form)

Employee Name: _____ Employee No: _____

Title: _____ Office Location: _____

Length of time employed or date of hire: _____

Mailing address: _____

_____

Sex: M ☐ F ☐ Birth date: _____

Business phone & extension: _____ Residence/cell phone: _____

ACCIDENT INFORMATION

Project: _____ Project #: _____

Date & time of incident: _____ Time work started & ended: _____

Site location: _____

Incident Type: Possible Exposure ☐ Exposure ☐ Physical Injury ☐

Names of person(s) who witnessed the incident:_____

_____

_____

Exact location incident occurred:

_____

_____

Describe work being done:_____

_____

_____

_____

Describe what affected employee was doing prior to the incident occurring:

_____

_____

_____

Describe in detail how the incident occurred:

_____

_____

_____

_____

Nature of the incident (List the parts of the body affected):

_____

_____

_____

_____

Person(s) to whom the incident was reported (Time and Date):

_____

_____

List the names of other persons affected during this incident:

_____

_____

Possible causes of the incident (equipment, unsafe work practices, lack of PPE, etc.):

Weather conditions during incident:

MEDICAL CARE INFORMATION

Did affected employee receive medical care? Yes ☐ No ☐

If Yes, when, and where was medical care received:

Provide name of facility (hospital, clinic, etc.):

Length of stay at the facility.

Did the employee miss any work time? Yes ☐ No ☐ Undetermined ☐

Date employee last worked: _____ Date employee returned to work:

Has the employee returned to work? Yes ☐ No ☐

Does the employee have any work limitations or restrictions from the injury? : Yes ☐ No ☐

If Yes, please describe:

Did the exposure/injury result in permanent disability? Yes ☐ No ☐ Unknown ☐

If Yes, please describe:

HEALTH & SAFETY INFORMATION

Was the operation being conducted under an established site-specific Construction Health and Safety Plan?
Yes ☐ No ☐ Not Applicable: ☐

Describe protective equipment and clothing used by the employee:

_____

_____

_____

Did any limitations in safety equipment or protective clothing contribute to or affect exposure/injury? If so, explain:

_____

_____

_____

_____

Employee Signature Date

_____

Langan Representative Date

ATTACHMENT D

CALIBRATION LOG

DATE:_____ **PROJECT:**_____

CALIBRATION LOG

Date & Time	Inst Type	Inst #	Media	Initial Reading	Span #	Calibrate Reading	Performed By:

ATTACHMENT E

SAFETY DATA SHEETS

SAFETY DATA SHEET

Version 5.4
Revision Date 03/05/2015
Print Date 02/19/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Freon® 113 solution

Product Number : 48411
Brand : Supelco

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Specific target organ toxicity - single exposure (Category 1), H370

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H370	Causes damage to organs.

Precautionary statement(s)

P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.

P304 + P340 + P311	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Synonyms : 1,1,2-Trichloro-1,2,2-trifluoroethanesolution

Hazardous components

Component		Classification	Concentration
Methanol			
CAS-No.	67-56-1	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301 + H311 + H331, H370	>= 90 - <= 100 %
EC-No.	200-659-6		
Index-No.	603-001-00-X		
Registration number	01-2119433307-44-XXXX		

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2 - 8 °C
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Methanol	67-56-1	TWA	200.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Headache Nausea Dizziness Eye damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Danger of cutaneous absorption		
		STEL	250.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Headache Nausea Dizziness Eye damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Danger of cutaneous absorption		

		TWA	200.000000 ppm 260.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		ST	250.000000 ppm 325.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	200.000000 ppm 260.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Methanol	67-56-1	Methanol	15.0000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 30 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials

Zinc, Acids, Oxidizing agents, Alkali metals, Powdered metals, Potassium, Acid chlorides, Acid anhydrides, Reducing agents, Aluminum, Sodium/sodium oxides, Magnesium

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

Methyl alcohol may be fatal or cause blindness if swallowed., Cannot be made non-poisonous., Effects due to ingestion may include:, Nausea, Dizziness, Gastrointestinal disturbance, Weakness, Confusion., Drowsiness, Unconsciousness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol
Reportable Quantity (RQ): 5000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1230 Class: 3 (6.1) Packing group: II EMS-No: F-E, S-D
Proper shipping name: METHANOL

IATA
UN number: 1230 Class: 3 (6.1) Packing group: II
Proper shipping name: Methanol

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

1,1,2-Trichlorotrifluoroethane	76-13-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	CAS-No.	Revision Date
Methanol	67-56-1	2012-03-16

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
STOT SE	Specific target organ toxicity - single exposure

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.4 Revision Date: 03/05/2015 Print Date: 02/19/2016

SAFETY DATA SHEET

Version 4.10
Revision Date 01/28/2016
Print Date 02/18/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Biphenyl

Product Number : W312908
Brand : Aldrich
Index-No. : 601-042-00-8

CAS-No. : 92-52-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{12}H_{10}$
Molecular weight	:	154.21 g/mol
CAS-No.	:	92-52-4
EC-No.	:	202-163-5
Index-No.	:	601-042-00-8

Hazardous components

Component	Classification	Concentration
Biphenyl		
	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H315, H319, H335, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Biphenyl	92-52-4	TWA	0.2 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Pulmonary function		
		TWA	0.200000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Pulmonary function		

		TWA	0.2 ppm 1 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	0.200000 ppm 1.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	0.2 ppm 1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	0.200000 ppm 1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 30 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: light yellow
b)	Odour	characteristic
c)	Odour Threshold	No data available
d)	pH	5.5
e)	Melting point/freezing point	Melting point/range: 68 - 70 °C (154 - 158 °F) - lit.
f)	Initial boiling point and boiling range	255 °C (491 °F) - lit.
g)	Flash point	110 °C (230 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable. - Flammability (solids)
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 5.8 %(V) Lower explosion limit: 0.6 %(V)
k)	Vapour pressure	0.04 hPa (0.03 mmHg) at 20 °C (68 °F) 5.5 hPa (4.1 mmHg) at 100 °C (212 °F) 12.6 hPa (9.5 mmHg) at 115 °C (239 °F) 95.7 hPa (71.8 mmHg) at 166 °C (331 °F)
l)	Vapour density	No data available
m)	Relative density	0.992 g/cm3
n)	Water solubility	0.0075 g/l at 15 °C (59 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 4.008 at 25 °C (77 °F)
p)	Auto-ignition temperature	566 °C (1,051 °F) at 1,013.0 hPa (759.8 mmHg)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Inhalation: No data available

LD50 Dermal - Rabbit - > 5,010 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Irritating to skin. - 24 h
(Draize Test)

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
Maximisation Test (GPMT) - Guinea pig
Does not cause skin sensitisation.
(OECD Test Guideline 406)

Germ cell mutagenicity
Ames test
S. typhimurium
Result: negative

Mouse - male and female
Result: negative

Carcinogenicity

Carcinogenicity - Mouse - Oral
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Blood:Tumors.

Carcinogenicity - Mouse - Subcutaneous
Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Liver:Tumors.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: DU8050000

Liver injury may occur., Gastrointestinal disturbance

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 3 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	flow-through test EC50 - Daphnia magna (Water flea) - 0.36 mg/l - 48 h

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 14 d Result: 84 % - Readily biodegradable (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Leuciscus idus (Golden orfe) - 3 d - 50 µg/l Bioconcentration factor (BCF): 281

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Biphenyl)
Reportable Quantity (RQ): 100 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Biphenyl)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Biphenyl)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Biphenyl	92-52-4	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Biphenyl	92-52-4	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Biphenyl	92-52-4	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Biphenyl	92-52-4	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	1
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	1
Reactivity Hazard:	0

Further information
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Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.10 Revision Date: 01/28/2016 Print Date: 02/18/2016

SAFETY DATA SHEET

Version 5.3
Revision Date 12/29/2015
Print Date 04/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 1,1-Dichloroethane

Product Number : 48512
Brand : Supelco
Index-No. : 602-011-00-1

CAS-No. : 75-34-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Acute toxicity, Oral (Category 4), H302
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Ethylidene chloride
Formula	:	$C_2H_4Cl_2$
Molecular weight	:	98.96 g/mol
CAS-No.	:	75-34-3
EC-No.	:	200-863-5
Index-No.	:	602-011-00-1

Hazardous components

Component	Classification	Concentration
1,1-Dichloroethane		
	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 3; Aquatic Chronic 3; H225, H302, H319, H335, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,1-Dichloroethane	75-34-3	TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Eye irritation Liver damage Kidney damage Not classifiable as a human carcinogen		
		TWA	100.000000 ppm 400.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		See Appendix C		
		TWA	100.000000 ppm 400.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 60 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering

controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-97.99 °C (-144.38 °F)
f)	Initial boiling point and boiling range	55.0 - 58.0 °C (131.0 - 136.4 °F)
g)	Flash point	-9.99 °C (14.02 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.17 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 725.0 mg/kg

LC50 Inhalation - Rat - 4 h - 13000 ppm

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
Chronic exposure may cause dermatitis.

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KI0175000

Liver injury may occur., Kidney injury may occur., narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2362 Class: 3 Packing group: II
Proper shipping name: 1,1-Dichloroethane
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 2362 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: 1,1-DICHLOROETHANE

IATA
UN number: 2362 Class: 3 Packing group: II
Proper shipping name: 1,1-Dichloroethane

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,1-Dichloroethane	75-34-3	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,1-Dichloroethane	75-34-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,1-Dichloroethane	75-34-3	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,1-Dichloroethane	75-34-3	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
1,1-Dichloroethane	75-34-3	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.3 Revision Date: 12/29/2015 Print Date: 04/11/2016

SAFETY DATA SHEET

Version 6.7
Revision Date 08/05/2024
Print Date 08/06/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : 1,2,4,5-Tetramethylbenzene

Product Number : T19607
Brand : Aldrich
CAS-No. : 95-93-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 1), H228
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

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2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard Statements

H228	Flammable solid.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Durene
1,2,4,5-Tetramethylbenzene

Formula : $C_{10}H_{14}$
Molecular weight : 134.22 g/mol
CAS-No. : 95-93-2
EC-No. : 202-465-7

Component	Classification	Concentration
1,2,4,5-tetramethylbenzene		
	Flam. Sol. 1; Aquatic Acute 1; Aquatic Chronic 1; H228, H400, H410 M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 1	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures
No data available

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media
No data available

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.

5.3 Advice for firefighters
No data available

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For personal protection see section 8.

6.2 Environmental precautions
No data available

6.3 Methods and materials for containment and cleaning up
No data available

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
No data available

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Skin protection
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Control of environmental exposure
Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystals
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 76 - 80 °C (169 - 176 °F) - lit.
f)	Initial boiling point and boiling range	191 - 193 °C 376 - 379 °F
g)	Flash point	74 °C (165 °F) - closed cup - c.c.
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 1.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available

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m)	Density	0.838 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	Not classified as explosive.
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
No data available

10.3 Possibility of hazardous reactions
Violent reactions possible with:
Oxidizing agents

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 6,700 mg/kg
Remarks: (RTECS)
Inhalation: No data available
Dermal: No data available

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Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: DC0500000
The data available to us do not suffice to permit any industrial-toxicological assessment.

Further toxicological data:

Risk of absorption.

Other dangerous properties can not be excluded.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC0 - Leuciscus idus (Golden orfe) - 10 mg/l - 48 h Remarks: (ECOTOX Database)

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	LC50 - Leuciscus idus (Golden orfe) - 30 mg/l - 48 h Remarks: (ECOTOX Database)
	LC100 - Leuciscus idus (Golden orfe) - 50 mg/l - 48 h Remarks: (ECOTOX Database)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.47 mg/l - 48 h Remarks: (External MSDS)

12.2 Persistence and degradability
Not readily biodegradable.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
No data available

SECTION 14: Transport information

DOT (US)
UN number: 1325 Class: 4.1 Packing group: II
Proper shipping name: Flammable solids, organic, n.o.s. (1,2,4,5-tetramethylbenzene)
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG
UN number: 1325 Class: 4.1 Packing group: II EMS-No: F-A, S-G

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Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (1,2,4,5-tetramethylbenzene)
Marine pollutant : yes

IATA
UN number: 1325 Class: 4.1 Packing group: II
Proper shipping name: Flammable solid, organic, n.o.s. (1,2,4,5-tetramethylbenzene)

SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Fire Hazard

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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SECTION 16: Other information

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.7 Revision Date: 08/05/2024 Print Date: 08/06/2024

The life science business of Merck KGaA, Darmstadt, Germany
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M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Company: AccuStandard, Inc.
125 Market Street
New Haven, CT 06513

Date MSDS Printed: 4/21/2006
Preparation Date: 4/21/2006
Information Phone Number: 203-786-5290
Emergency Phone Number: 203-786-5290
Hours: Mon. to Fri. 8am-5pm EDT

MSDS Number: V-029
Product Name: 1,2,4-Trimethylbenzene
Synonyms: 1,2,4-Trimethylbenzene; Pseudocumene; psi-Cumene; Assymetrical trimethylbenzene
Formula: C_9H_{12} Molecular Weight: 120.19

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Component(s) (1)	CAS #	Appr. %	ACGIH-TLV (mg/m3) TWA	ACGIH-TLV (mg/m3) STEL skin	OSHA-PEL (mg/m3) TWA	OSHA-PEL (mg/m3) STEL skin
1,2,4-Trimethylbenzene	95-63-6	100	123			

SECTION 3 - HAZARDS IDENTIFICATION

Symptoms of Exposure:

Irritating to eyes, skin, mucous membranes and upper respiratory system.

Narcotic in high concentrations.

May cause headache, dizziness, nausea, and narcosis.

May cause stomach cramps and gastro-intestinal disturbances.

To the best of our knowledge the chemical, physical and toxicological properties of the component ingredients have not been thoroughly investigated.

Potential Health Effects:

Harmful if inhaled.

May be harmful if absorbed through skin or swallowed

May cause central nervous system damage.

Routes of Entry:

Inhalation, ingestion or skin contact.

Carcinogenicity:

This product is or contains a component that is not listed (ACGIH, IARC, NTP, OSHA) as a cancer causing agent.

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SECTION 4 - FIRST AID MEASURES

Emergency First Aid:

Get medical assistance for all cases of overexposure.

Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: Call a physician or poison control center immediately. ONLY induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point: 118.4 °F (48 °C) (cc)

Flammable Limits LEL (%): 0.9

Flammable Limits UEL (%): 6.4

Autoignition Temperature: 515 °C

Flammable liquid and vapor.

Vapors can travel to a source of ignition and flash back.

Containers can build up pressure if exposed to heat.

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

Fire Fighting Procedures:

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill Response:

Wear a self-contained breathing apparatus and appropriate Personal protection. Stop leak if you can do so without risk. Ventilate area. Neutralize spill with soda ash or lime. Take up and containerize for proper disposal. Flush spill area with water. Keep combustibles away from spilled material. Comply with Federal, State, and local regulations.

SECTION 7 - HANDLING AND STORAGE

Store in a tighly closed container.

Store in a cool area away from ignition sources and oxidizers.

Do not breathe vapor.

Do not get in eyes, on skin or clothing.

Avoid prolonged or repeated exposure.

This product should only by used by persons trained in the safe handling of hazardous chemicals.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls and Personal Protection Equipment (PPE):

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other

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NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Compatible chemical-resistant protective gloves must be worn to prevent skin contact.

Safety glasses with side shields must be worn at all times.

General Hygiene Considerations:

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid
Odor: Aromatic
pH: N/A
Vapor Pressure: 7 mmHg (44.4 °C)
Vapor Density (Air = 1): 4.2 g/l
Boiling Point: 168 - 169 °C
Melting Point: -43.7 °C
Solubility in Water (%): Insoluble
Specific Gravity (H_2O = 1): 0.876 g/cm3
Flash Point: 118.4 °F (48 °C) (cc)
Explosion Limits (%): 0.9 to 6.4
Autoignition Temperature: 515 °C
Percent Volatile: N/A
Evaporation Rate (BuAc = 1): N/A
Molecular Weight: 120.19
Molecular Formula: C_9H_{12}

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable
Conditions To Avoid: Heat; Contact with ignition sources
Materials To Avoid: Oxidizers

Hazardous Decomposition: Carbon oxides
Hazardous Polymerization: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

See section 3 for specific toxicological information for the ingredients of this product.

SECTION 12 - ECOLOGICAL INFORMATION

By complying with sections 6 and 7 there will be no release to the environment.

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SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

DOT UN Number: UN3295 Shipping Class: 3 Packing Group: III FLAMMABLE

SECTION 15 - REGULATORY INFORMATION

In addition to Federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI and CHIPs regulations.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. It is intended for use only by persons having the necessary technical skill and at their own discretion and risk. Since conditions and manner of use are outside our control, we make
NO WARRANTY, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

* * * End of Document * * *

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SAFETY DATA SHEET

Version 4.7
Revision Date 11/26/2015
Print Date 02/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 1,2-Dichlorobenzene

Product Number : 240664
Brand : Sigma-Aldrich
Index-No. : 602-034-00-7

CAS-No. : 95-50-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 4), H227
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H227 Combustible liquid.
H302 + H332 Harmful if swallowed or if inhaled
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_6H_4Cl_2$
Molecular weight	:	147.00 g/mol
CAS-No.	:	95-50-1
EC-No.	:	202-425-9
Index-No.	:	602-034-00-7

Hazardous components

Component	Classification	Concentration
1,2-Dichlorobenzene		
	Flam. Liq. 4; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H227, H302 + H332, H315, H317, H319, H335, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Light sensitive.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,2-Dichlorobenzene	95-50-1	TWA	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Eye irritation Liver damage Not classifiable as a human carcinogen		
		TWA	25 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye irritation Liver damage Not classifiable as a human carcinogen		
		STEL	50.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye irritation Liver damage Not classifiable as a human carcinogen		
		STEL	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye irritation Liver damage Not classifiable as a human carcinogen		
		C	50.000000 ppm 300.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate. Ceiling limit is to be determined from breathing-zone air samples.		
		C	50.000000 ppm 300.000000 mg/m3	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 38 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -18 - -17 °C (0 - 1 °F) - lit.
f)	Initial boiling point and boiling range	178 - 180 °C (352 - 356 °F) - lit.
g)	Flash point	66.0 °C (150.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 9.2 %(V) Lower explosion limit: 2.2 %(V)
k)	Vapour pressure	2.1 hPa (1.6 mmHg) at 35.0 °C (95.0 °F) 1.6 hPa (1.2 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.306 g/cm3 at 25 °C (77 °F)
n)	Water solubility	ca.0.1558 g/l at 25 °C (77 °F) - partly soluble
o)	Partition coefficient: n-octanol/water	log Pow: ca.3.433 at 25 °C (77 °F)
p)	Auto-ignition temperature	648.0 °C (1,198.4 °F)
q)	Decomposition	No data available

temperature

r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	ca.36.61 mN/m

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 500.0 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - > 10,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
(OECD Test Guideline 404)

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
in vivo assay - Mouse
May cause sensitisation by skin contact.
(OECD Test Guideline 429)

Germ cell mutagenicity
No data available

Ames test
Salmonella typhimurium
Result: negative

OECD Test Guideline 474
Mouse - male - Bone marrow
Result: negative

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (1,2-Dichlorobenzene)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure

Aspiration hazard
No data available

Additional Information

Repeated dose toxicity	Rat - male and female - Oral - 24 h - NOAEL : 60 mg/kg - LOAEL : 125 mg/kg - OECD Test Guideline 408

RTECS: CZ4500000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 1.58 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Ceriodaphnia dubia (water flea) - 0.66 mg/l - 48 h
Toxicity to algae	Growth inhibition EC50 - Pseudokirchneriella subcapitata - 2.2 mg/l - 96 h

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 0 % - Not readily biodegradable. (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Cyprinus carpio (Carp) - 56 d - 0.01 mg/l Bioconcentration factor (BCF): 90 - 260 (OECD Test Guideline 305C)

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1591 Class: 6.1 Packing group: III
Proper shipping name: o-Dichlorobenzene
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1591 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: ortho-DICHLOROBENZENE
Marine pollutant:yes

IATA
UN number: 1591 Class: 6.1 Packing group: III
Proper shipping name: o-Dichlorobenzene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,2-Dichlorobenzene	95-50-1	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,2-Dichlorobenzene	95-50-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,2-Dichlorobenzene	95-50-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,2-Dichlorobenzene	95-50-1	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H227	Combustible liquid.
H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	2
Physical Hazard	1

NFPA Rating

Health hazard:	2
Fire Hazard:	2
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.7 Revision Date: 11/26/2015 Print Date: 02/11/2016

SAFETY DATA SHEET

Creation Date 04-Feb-2010 **Revision Date** 18-Jan-2018 **Revision Number** 6

1. Identification

Product Name **1,2-Dichloroethane**

Cat No. : **E175-4; E175-20; E175-500; E175RS-19; E175RS-50; E190-4**

CAS-No 107-06-2
Synonyms Ethylene dichloride; Ethylene chloride (Certified ACS/Spectranalyzed)

Recommended Use Laboratory chemicals.
Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Liver, Heart, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor
Harmful if swallowed
Causes skin irritation
Causes serious eye irritation

Toxic if inhaled
May cause respiratory irritation
May cause drowsiness or dizziness
May cause cancer
May cause damage to organs through prolonged or repeated exposure



Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
Skin
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)

WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Ethylene dichloride	107-06-2	>95

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms and effects Breathing difficulties. May cause cardiac arrhythmia. May cause central nervous system depression: Symptoms may include tightness in the chest, flushing, headache, nausea, vomiting, respiratory depression, weakness, irregular heartbeat, abdominal pain, convulsions, and shock

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media Water may be ineffective

Flash Point 13 °C / 55.4 °F

Method - No information available

Autoignition Temperature 440 °C / 824 °F

Explosion Limits

Upper 15.9 vol %
Lower 6.2 vol %
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2) Hydrogen chloride gas Phosgene
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	3	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological information.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Ethylene dichloride	TWA: 10 ppm	(Vacated) TWA: 1 ppm (Vacated) TWA: 4 mg/m³ Ceiling: 100 ppm (Vacated) STEL: 2 ppm (Vacated) STEL: 8 mg/m³ TWA: 50 ppm	IDLH: 50 ppm TWA: 1 ppm TWA: 4 mg/m³ STEL: 2 ppm STEL: 8 mg/m³	TWA: 10 ppm TWA: 40 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tightly fitting safety goggles. Face-shield.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	sweet
Odor Threshold	400 ppm
pH	No information available
Melting Point/Range	-35 °C / -31 °F
Boiling Point/Range	81 - 85 °C / 177.8 - 185 °F
Flash Point	13 °C / 55.4 °F
Evaporation Rate	6.5 (Butyl Acetate = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	15.9 vol %
Lower	6.2 vol %
Vapor Pressure	65 mmHg @ 29 °C
Vapor Density	3.4
Specific Gravity	1.250
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	440 °C / 824 °F
Decomposition Temperature	No information available
Viscosity	0.8 mPa s at 20 °C
Molecular Formula	C2 H4 Cl2
Molecular Weight	98.96

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials Strong oxidizing agents, Bases, Alkali metals

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2), Hydrogen chloride gas, Phosgene

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene dichloride	625 mg/kg (Rat) 413 mg/kg (Mouse)	2800 mg/kg (Rabbit)	28.79 mg/L (Rat) 1h 7.8 mg/l (Rat) 4h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Ethylene dichloride	107-06-2	Group 2B	Reasonably Anticipated	Not listed	X	Not listed

IARC: (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system Central nervous system (CNS)
STOT - repeated exposure Kidney Liver Heart Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed May cause central nervous system depression: Symptoms may include tightness in the chest, flushing, headache, nausea, vomiting, respiratory depression, weakness, irregular heartbeat, abdominal pain, convulsions, and shock

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethylene dichloride	EC50: = 166 mg/L, 96h static (Desmodesmus subspicatus) EC50: > 433 mg/L, 96h (Pseudokirchneriella subcapitata)	LC50: 110 - 123 mg/L, 96h flow-through (Pimephales promelas) LC50: 230 - 710 mg/L, 96h flow-through (Lepomis macrochirus) LC50: = 225 mg/L, 96h static (Oncorhynchus mykiss)	Not listed	EC50: 140 - 190 mg/L, 48h Static (Daphnia magna)

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Ethylene dichloride	1.45

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Ethylene dichloride - 107-06-2	U077	-

14. Transport information

DOT

UN-No	UN1184
Proper Shipping Name	ETHYLENE DICHLORIDE
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II

TDG

UN-No	UN1184
Proper Shipping Name	ETHYLENE DICHLORIDE
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II

IATA

UN-No	UN1184
Proper Shipping Name	ETHYLENE DICHLORIDE
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II

IMDG/IMO

UN-No	UN1184
Proper Shipping Name	ETHYLENE DICHLORIDE
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ethylene dichloride	X	X	-	203-458-1	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Component	TSCA 12(b)
Ethylene dichloride	Section 4

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Ethylene dichloride	107-06-2	>95	0.1

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Ethylene dichloride	X	100 lb	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Ethylene dichloride	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Ethylene dichloride	100 lb 1 lb	-

California Proposition 65 This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Ethylene dichloride	107-06-2	Carcinogen	10 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethylene dichloride	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Serious risk, Grade 3

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 04-Feb-2010
Revision Date 18-Jan-2018
Print Date 18-Jan-2018
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 4.7
Revision Date 06/18/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 1,3-Dichlorobenzene

Product Number : 113808
Brand : Aldrich
Index-No. : 602-067-00-7

CAS-No. : 541-73-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 4), H227
Acute toxicity, Oral (Category 4), H302
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H227 Combustible liquid.
H302 Harmful if swallowed.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you

	feel unwell. Rinse mouth.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_6H_4Cl_2$
Molecular weight	:	147.00 g/mol
CAS-No.	:	541-73-1
EC-No.	:	208-792-1
Index-No.	:	602-067-00-7

Hazardous components

Component	Classification	Concentration
1,3-Dichlorobenzene		
	Flam. Liq. 4; Acute Tox. 4; Aquatic Acute 2; Aquatic Chronic 2; H227, H302, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Combustible liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm

Break through time: 37 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -25 - -22 °C (-13 - -8 °F) - lit.
f)	Initial boiling point and boiling range	172 - 173 °C (342 - 343 °F) - lit.
g)	Flash point	67.0 °C (152.6 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.288 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available

t) Oxidizing properties No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Mouse - 1,062 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (1,3-Dichlorobenzene)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CZ4499000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 7.8 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 1.7 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Bioaccumulation: Pimephales promelas (fathead minnow) - 32 d - 0.3 mg/l

Bioconcentration factor (BCF): 97

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (1,3-Dichlorobenzene)
Reportable Quantity (RQ): 100 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3-Dichlorobenzene)
Marine pollutant:yes

IATA
UN number: 3082 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (1,3-Dichlorobenzene)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,3-Dichlorobenzene	541-73-1	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,3-Dichlorobenzene	541-73-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,3-Dichlorobenzene	541-73-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,3-Dichlorobenzene	541-73-1	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Flam. Liq.	Flammable liquids
H227	Combustible liquid.
H302	Harmful if swallowed.
H401	Toxic to aquatic life.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	2
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	2
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.7 Revision Date: 06/18/2015 Print Date: 02/09/2016

SAFETY DATA SHEET

Version 4.4
Revision Date 04/24/2015
Print Date 04/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 1,4-Dichlorobenzene

Product Number : D56829
Brand : Aldrich
Index-No. : 602-035-00-2

CAS-No. : 106-46-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_6H_4Cl_2$
Molecular weight	:	147.00 g/mol
CAS-No.	:	106-46-7
EC-No.	:	203-400-5
Index-No.	:	602-035-00-2

Hazardous components

Component	Classification	Concentration
1,4-Dichlorobenzene		
	Eye Irrit. 2A; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H319, H351, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,4-Dichlorobenzene	106-46-7	TWA	10.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye irritation Kidney damage Confirmed animal carcinogen with unknown relevance to humans		
		Potential Occupational Carcinogen See Appendix A		
		TWA	75.000000 ppm 450.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: sheets Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 52 - 54 °C (126 - 129 °F) - lit.
f)	Initial boiling point and boiling range	173 °C (343 °F) - lit.
g)	Flash point	66.0 °C (150.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	8.8 hPa (6.6 mmHg) at 50.0 °C (122.0 °F) 0.5 hPa (0.4 mmHg) at 25.0 °C (77.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.241 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available

o)	Partition coefficient: n-octanol/water	log Pow: 3.40
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Bulk density	650 kg/m3

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD0 Oral - Rat - male and female - > 2,000 mg/kg
(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 5.07 mg/l

LD0 Dermal - Rat - > 2,000 mg/kg
(OECD Test Guideline 402)

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitisation
Maximisation Test (GPMT) - Guinea pig
Did not cause sensitisation on laboratory animals.
(OECD Test Guideline 406)

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (1,4-Dichlorobenzene)
NTP:	Reasonably anticipated to be a human carcinogen (1,4-Dichlorobenzene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CZ4550000

Produces:, methemoglobin, Nausea, Vomiting, Increased pulse rate, Headache, Impairment of vision

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Salmo gairdneri - 1.12 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 0.7 mg/l - 48 h
Toxicity to algae	Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 1.6 mg/l - 96 h

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 30 % - Not rapidly biodegradable (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Jordanella floridae - 5 d - 2.68 µg/l Bioconcentration factor (BCF): 296

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (1,4-Dichlorobenzene)
Reportable Quantity (RQ): 100 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,4-Dichlorobenzene)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (1,4-Dichlorobenzene)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	2
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.4 Revision Date: 04/24/2015 Print Date: 04/01/2016

SAFETY DATA SHEET

Version 5.4
Revision Date 03/03/2015
Print Date 04/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 1,4-Dioxane

Product Number : 296309
Brand : Sigma-Aldrich
Index-No. : 603-024-00-5

CAS-No. : 123-91-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P281	Use personal protective equipment as required.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May form explosive peroxides., Repeated exposure may cause skin dryness or cracking.
May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Dioxane Diethylene oxide
Formula	:	$C_4H_8O_2$
Molecular weight	:	88.11 g/mol
CAS-No.	:	123-91-1
EC-No.	:	204-661-8
Index-No.	:	603-024-00-5
Registration number	:	01-2119462837-26-XXXX

Hazardous components

Component	Classification	Concentration
1,4-Dioxane		
	Flam. Liq. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; H225, H319, H335, H351	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,4-Dioxane	123-91-1	TWA	20.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Liver damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Liver damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	25 ppm 90 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		
		TWA	100.000000 ppm 360.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation The value in mg/m3 is approximate.		
		TWA	100 ppm 360 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation The value in mg/m3 is approximate.		
		C	1.000000 ppm 3.600000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A 30 minute ceiling value		

Derived No Effect Level (DNEL)

Application Area	Exposure routes	Health effect	Value
Workers	Inhalation	Long-term local effects	144 mg/m3
Workers	Inhalation	Long-term systemic effects	73 mg/m3
Workers	Skin contact	Long-term systemic effects	21 mg/m3

Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	0.153 mg/kg
Marine water	0.67 mg/l
Fresh water	10 mg/l
Fresh water sediment	37 mg/kg
Sewage treatment plant	2700 mg/l
Aquatic intermittent release	10 mg/l

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact
Material: Chloroprene
Minimum layer thickness: 0.6 mm
Break through time: 35 min
Material tested:Camapren® (KCL 722 / Aldrich Z677493, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	6.0 - 8 at 500 g/l at 20 °C (68 °F)
e)	Melting point/freezing point	Melting point/range: 10 - 12 °C (50 - 54 °F) - lit.
f)	Initial boiling point and boiling range	100 - 102 °C (212 - 216 °F) - lit.
g)	Flash point	12 °C (54 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 22 %(V) Lower explosion limit: 2 %(V)
k)	Vapour pressure	36 hPa (27 mmHg) at 20 °C (68 °F) 53 hPa (40 mmHg) at 25.20 °C (77.36 °F)
l)	Vapour density	3.04 - (Air = 1.0)

m)	Relative density	1.034 g/cm3 at 25 °C (77 °F)
n)	Water solubility	completely miscible
o)	Partition coefficient: n-octanol/water	log Pow: -0.27
p)	Auto-ignition temperature	300 °C (572 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	36.9 mN/m at 25 °C (77 °F)
Relative vapour density	3.04 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.
Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxygen, Oxidizing agents, Halogens, Reducing agents, Perchlorates., Trimethylaluminum

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 4,200 mg/kg

LC50 Inhalation - Rat - 2 h - 46,000 mg/m3
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other.

LD50 Dermal - Rabbit - 7,858 mg/kg

No data available

Skin corrosion/irritation
Skin - Human
Remarks: Chronic exposure causes drying effect on the skin and eczema.

Skin - Rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation - 24 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (1,4-Dioxane)
NTP:	Reasonably anticipated to be a human carcinogen (1,4-Dioxane)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: JG8225000

Nausea, Vomiting, Weakness, Dizziness, Vertigo, Headache, Sweating, loss of appetite, Kidney injury may occur., Liver injury may occur.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 985 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 8,450 mg/l - 24 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - > 500 mg/l - 72 h

12.2 Persistence and degradability

Biodegradability	Result: < 5 % - Not readily biodegradable.

12.3 Bioaccumulative potential
Does not bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1165 Class: 3 Packing group: II
Proper shipping name: Dioxane
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1165 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: DIOXANE

IATA
UN number: 1165 Class: 3 Packing group: II
Proper shipping name: Dioxane

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,4-Dioxane	123-91-1	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,4-Dioxane	123-91-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,4-Dioxane	123-91-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,4-Dioxane	123-91-1	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
1,4-Dioxane	123-91-1	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
STOT SE	Specific target organ toxicity - single exposure

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.4 Revision Date: 03/03/2015 Print Date: 04/11/2016

Matrix Scientific

PO BOX 25067
COLUMBIA, SC 29224-5067
Telephone: 803-788-9494 Fax: 803-788-9419

SAFETY DATA SHEET

Transportation Emergency: 3E Co. (5025) 800-451-8346

1. Product Identification

Name 1H,1H,2H,2H-Perfluorooctanesulfonic acid (25% aqueous solution)

Catalog Number	009120
CAS Registry Number	[27619-97-2]
Company	Matrix Scientific
Physical Address	131 Pontiac Business Center Drive Elgin, SC 29045 USA
Telephone/Fax	(803)788-9494/(803)788-9419

2. Hazard Identification

Hazardous Ingredients 1H,1H,2H,2H-Perfluorooctanesulfonic acid (25% aqueous solution)

GHS label elements, including precautionary statements

Pictogram



Signal word DANGER

Hazard statement(s)

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	H317 May cause an allergic skin reaction
H318	Causes serious eye damage
H319	H319 Causes serious eye irritation

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P501	Dispose of contents/container to … [… in accordance with

local/regional/national/international regulation (to be specified)].

3. Composition, Information or Ingredients

Name 1H,1H,2H,2H-Perfluorooctanesulfonic acid (25% aqueous solution)

4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with clean, running water for at least 15 minutes while keeping eyes open. Cool water may be used. Seek medical attention.

Skin Contact: After contact with skin, wash with generous quantities of running water. Gently and thoroughly wash affected area with running water and non-abrasive soap. Cool water may be used. Cover the affected area with emollient. Seek medical attention. Wash any contaminated clothing prior to reusing.

Inhalation: Remove the victim from the source of exposure to fresh, uncontaminated air. If victim's breathing is difficult, administer oxygen. Seek medical attention.

Ingestion: Do NOT induce vomiting. Give water to victim to drink. Seek medical attention.

5. Fire-Fighting Measures

Extinguishing media: Carbon dioxide, dry chemical powder, alcohol or polymer foam.

Special fire fighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards/ decomposition of product: Emits toxic fumes under fire conditions.

6. Accidental Release Measures

Steps to be taken if material is spilled or otherwise released into the environment - Wear Appropriate respirator, impervious boots and heavy rubber (or otherwise impervious) gloves. Scoop up solid material or absorb liquid material and place into appropriate container. Ventilate area and wash affected spill area after pickup is complete. Wash skin immediately with plenty of water. Place solid or absorbed material into containers and close for disposal.

7. Handling and Storage

Avoid prolonged exposure.
Use caution when handling.
Exposure to any chemical should be limited.
Do not breath dust or vapor.
Have safety shower and eye wash available.

Do not get in eyes, on skin or on clothing.
Keep container tightly closed.
Store in a cool, dry, well-ventilated place.
Ensure adequate ventilation during use.
Use only in a chemical fume hood.
To the best of our knowledge, the health hazards of this product have not been fully investigated.
This product is provided solely for the purpose of research and development.

8. Exposure Controls and Personal Protection

Wear Protective safety goggles.
Wear chemical-resistant gloves.
Wear protective clothing and chemical resistant boots.
Ensure ventilation during use.
After contact with skin, wash immediately.

9. Physical and Chemical Properties

Appearance: liquid
Molecular Formula: C8H5F13O3S
Molecular Weight: 428.17

10. Stability and Reactivity

Incompatibilities: Strong oxidizing agents
Strong acids and bases

Hazard Decomposition Products

Carbon	carbon monoxide
	carbon dioxide
Fluorine	hydrogen fluoride
Sulfur	oxides of sulfur

11. Toxicological Information

Acute effects:
Irritant
May be harmful by ingestion and inhalation.
Material is irritating to mucous membranes and upper respiratory tract.
To the best of our knowledge, the toxicological properties of this product have not been fully investigated or determined.

12. Ecological Information

Mobility:	Data not known
Persistence and degradability:	No data available
Cumulative potential:	No data available

Other adverse effects: No data available

13. Disposal Considerations

Absent other actions demanded by federal or local regulations - Dissolve or mix the material with a combustible solvent and burn in a requlated, chemical incinerator equipped with after burner and scrubber.
Observe all federal, state and local laws.

14. Transport Information

Shipping Name Corrosive liquid, acidic, organic, n.o.s.
Class / Sub-Class 8
UN Number UN3265
Packing Group III
Inhalation Hazard Zone

15. Regulatory Information

Adhere to all Federal, State and local regulations.

16. Other Information

The information contained herein is accurate to the best of our knowledge, but is not meant to be complete and is included only as a guide. The end user is responsible for any damage resulting from handling or from contact with this product.

SAFETY DATA SHEET

Version 5.4
Revision Date 11/03/2015
Print Date 04/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 2,2,4-Trimethylpentane

Product Number : 360597
Brand : Sigma-Aldrich
Index-No. : 601-009-00-8

CAS-No. : 540-84-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Aspiration hazard (Category 1), H304
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Isooctane
Formula	:	C_8H_{18}
Molecular weight	:	114.23 g/mol
CAS-No.	:	540-84-1
EC-No.	:	208-759-1
Index-No.	:	601-009-00-8
Registration number	:	01-2119457965-22-XXXX

Hazardous components

Component	Classification	Concentration
2,2,4-Trimethylpentane		
	Flam. Liq. 2; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H225, H304, H315, H336, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Nature of decomposition products not known.
Carbon oxides
Flash back possible over considerable distance., Container explosion may occur under fire conditions.

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
2,2,4-Trimethylpentane	540-84-1	TWA	300.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation		

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 482 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 90 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -107 °C (-161 °F)
f)	Initial boiling point and boiling range	98 - 99 °C (208 - 210 °F)
g)	Flash point	-12 °C (10 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 6 %(V) Lower explosion limit: 1 %(V)
k)	Vapour pressure	55 hPa (41 mmHg) at 21 °C (70 °F) 117 hPa (88 mmHg) at 37.80 °C (100.04 °F)
l)	Vapour density	3.94 - (Air = 1.0)
m)	Relative density	0.692 g/mL at 25 °C (77 °F)
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	log Pow: 4.6
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Relative vapour density	3.94 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - > 5,000 mg/kg
(OECD Test Guideline 401)

LC50 Inhalation - Rat - 4 h - > 33.52 mg/l
(OECD Test Guideline 403)

LD50 Dermal - Rabbit - > 2,000 mg/kg
(OECD Test Guideline 402)

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Irritating to skin.
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity

Rat
Unscheduled DNA synthesis

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Additional Information
RTECS: SA3320000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1262 Class: 3 Packing group: II
Proper shipping name: Octanes
Reportable Quantity (RQ): 1000 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 1262 Class: 3 Packing group: II EMS-No: F-E, S-E
Proper shipping name: OCTANES
Marine pollutant:yes

IATA
UN number: 1262 Class: 3 Packing group: II
Proper shipping name: Octanes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
2,2,4-Trimethylpentane	540-84-1	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
2,2,4-Trimethylpentane	540-84-1	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
2,2,4-Trimethylpentane	540-84-1	2007-03-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Skin Irrit.	Skin irritation

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.4 Revision Date: 11/03/2015 Print Date: 04/01/2016

SAFETY DATA SHEET

Version 4.5
Revision Date 01/18/2016
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 2,4-Dimethylphenol

Product Number : D174203
Brand : Aldrich
Index-No. : 604-006-00-X

CAS-No. : 105-67-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 2), H401

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 + H311 Toxic if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage.
H401 Toxic to aquatic life.

Precautionary statement(s)
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face

	protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P322	Specific measures (see supplemental first aid instructions on this label).
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	4-Hydroxy-*m*-xylene asym.-*m*-Xylenol
Formula	:	$C_8H_{10}O$
Molecular weight	:	122.16 g/mol
CAS-No.	:	105-67-9
EC-No.	:	203-321-6
Index-No.	:	604-006-00-X

Hazardous components

Component	Classification	Concentration
2,4-Xylenol		
	Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; H301 + H311, H314, H401	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 60 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Semi-solid melting to a liquid, clear Colour: brown
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 22 - 23 °C (72 - 73 °F) - lit.
f)	Initial boiling point and boiling range	211 - 212 °C (412 - 414 °F) - lit.
g)	Flash point	94.0 °C (201.2 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	0.1 hPa (0.1 mmHg) at 25.0 °C (77.0 °F)
l)	Vapour density	No data available

m)	Relative density	1.011 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 2.35
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Bases, Acid chlorides, Acid anhydrides, Oxidizing agents, Brass, Copper

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 3,200 mg/kg

Inhalation: No data available

LD50 Dermal - Rat - 1,040 mg/kg

No data available

Skin corrosion/irritation
Causes burns.

Serious eye damage/eye irritation
Risk of serious damage to eyes.

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: ZE5600000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 9.2 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 2.1 mg/l - 48 h

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation	Lepomis macrochirus (Bluegill) - 28 d - 0.0102 mg/l
	Bioconcentration factor (BCF): 150

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2261 Class: 6.1 Packing group: II
Proper shipping name: Xylenols, solid
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 2261 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: XYLENOLS, SOLID

IATA
UN number: 2261 Class: 6.1 Packing group: II
Proper shipping name: Xylenols, solid

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
2,4-Xylenol	105-67-9	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
2,4-Xylenol	105-67-9	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
2,4-Xylenol	105-67-9	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
2,4-Xylenol	105-67-9	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Eye Dam.	Serious eye damage
H301	Toxic if swallowed.
H301 + H311	Toxic if swallowed or in contact with skin
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.

HMIS Rating
Health hazard: 3
Chronic Health Hazard:
Flammability: 1

Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	1
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.5 Revision Date: 01/18/2016 Print Date: 02/09/2016

SAFETY DATA SHEET

Creation Date 13-Apr-2009 **Revision Date** 24-Dec-2021 **Revision Number** 7

1. Identification

Product Name **2-Butanone**

Cat No. : **AC149670000; AC149670010; AC149670025; AC149670051; AC149670250; AC149670251**

CAS No 78-93-3
Synonyms Methyl ethyl ketone; MEK; Ethyl methyl ketone

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Liver.	

Label Elements

Signal Word
Danger

Hazard Statements

Highly flammable liquid and vapor
Causes serious eye irritation
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure



Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection
Keep cool
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Repeated exposure may cause skin dryness or cracking
Other hazards
Contains a known or suspected endocrine disruptor.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Methyl ethyl ketone	78-93-3	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

	medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Inhalation	Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Get medical attention.
Most important symptoms and effects	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	CO_2, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	Water may be ineffective
Flash Point	-7 °C / 19.4 °F
Method -	CC (closed cup)
Autoignition Temperature	404 °C / 759.2 °F
Explosion Limits	
Upper	11.4 vol %
Lower	1.4 vol %
Oxidizing Properties	Not oxidising
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	3	1	N/A

6. Accidental release measures

Personal Precautions	Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.
Environmental Precautions	Avoid release to the environment. See Section 12 for additional Ecological Information.
Methods for Containment and Clean Up	Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Use spark-proof tools and explosion-proof equipment. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents. Ammonia. copper. Amines.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Methyl ethyl ketone	TWA: 200 ppm STEL: 300 ppm	(Vacated) TWA: 200 ppm (Vacated) TWA: 590 mg/m³ (Vacated) STEL: 300 ppm (Vacated) STEL: 885 mg/m³ TWA: 200 ppm TWA: 590 mg/m³	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m³ STEL: 300 ppm STEL: 885 mg/m³	TWA: 200 ppm STEL: 300 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Characteristic - sweet
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-87 °C / -124.6 °F
Boiling Point/Range	80 °C / 176 °F
Flash Point	-7 °C / 19.4 °F
Method -	CC (closed cup)

Evaporation Rate	3.7
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	11.4 vol %
Lower	1.4 vol %
Vapor Pressure	105 mbar @ 20 °C
Vapor Density	2.41
Specific Gravity	0.806
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	404 °C / 759.2 °F
Decomposition Temperature	No information available
Viscosity	0.42 mPa.s @ 15°C
Molecular Formula	C4 H8 O
Molecular Weight	72.11

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Hygroscopic.

Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents, Ammonia, copper, Amines

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl ethyl ketone	LD50 = 2483 mg/kg (Rat)	LD50 = 5000 mg/kg (Rabbit)	LC50 = 11700 ppm (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Methyl ethyl ketone	78-93-3	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS)
STOT - repeated exposure Kidney Liver

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methyl ethyl ketone	Not listed	Lepomis macrochirus: LC50=3,22 g/L 96 h	EC50 = 3403 mg/L 30 min EC50 = 3426 mg/L 5 min	EC50: = 5091 mg/L, 48h (Daphnia magna) EC50: 4025 - 6440 mg/L, 48h Static (Daphnia magna) EC50: > 520 mg/L, 48h (Daphnia magna)

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Methyl ethyl ketone	0.29

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methyl ethyl ketone - 78-93-3	U159	-

14. Transport information

DOT

UN-No UN1193
Proper Shipping Name Ethyl methyl ketone
Hazard Class 3
Packing Group II

TDG

UN-No UN1193
Proper Shipping Name ETHYL METHYL KETONE
Hazard Class 3
Packing Group II

IATA

UN-No UN1193
Proper Shipping Name Methyl ethyl ketone
Hazard Class 3

Packing Group II

IMDG/IMO

UN-No UN1193
Proper Shipping Name Ethyl methyl ketone (Methyl ethyl ketone)
Hazard Class 3
Packing Group II

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Methyl ethyl ketone	78-93-3	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Methyl ethyl ketone	78-93-3	X	-	201-159-0	X	X	X	X	X	KE-24094

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyl ethyl ketone	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl ethyl ketone	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Serious risk, Grade 3

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Methyl ethyl ketone	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Methyl ethyl ketone	78-93-3	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Methyl ethyl ketone	78-93-3	Not applicable	Not applicable	Not applicable	Annex I - Y42

16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 13-Apr-2009
Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 4.5
Revision Date 08/10/2016
Print Date 11/13/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 2-Chlorophenol

Product Number : 185779
Brand : Aldrich
Index-No. : 604-008-00-0

CAS-No. : 95-57-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 4), H227
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H227 Combustible liquid.
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Stench.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C_6H_5ClO
Molecular weight	:	128.56 g/mol
CAS-No.	:	95-57-8
EC-No.	:	202-433-2
Index-No.	:	604-008-00-0

Hazardous components

Component	Classification	Concentration
2-Chlorophenol		
	Flam. Liq. 4; Acute Tox. 4; Aquatic Acute 2; Aquatic Chronic 2; H227, H302 + H312 + H332, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Stench.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 30 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: light yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 8 °C (46 °F) - lit.
f)	Initial boiling point and boiling range	175 - 176 °C (347 - 349 °F) - lit.
g)	Flash point	64.0 °C (147.2 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available

	flammability or explosive limits	
k)	Vapour pressure	1.3 hPa (1.0 mmHg) at 121.0 °C (249.8 °F)
l)	Vapour density	No data available
m)	Relative density	1.241 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 2.32log Pow: 2.17log Pow: 5
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Acid chlorides, Acid anhydrides, Oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 670.0 mg/kg

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: SK2625000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 5.7 - 12 mg/l - 96.0 h
	LC50 - Pimephales promelas (fathead minnow) - 6 - 16 mg/l - 96.0 h
	LC50 - Carassius auratus (goldfish) - 10.7 - 15.2 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 6.30 - 17.90 mg/l - 24 h
	Immobilization EC50 - Daphnia magna (Water flea) - 3.91 mg/l - 48 h
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 70.00 mg/l - 96 h
	EC50 - Chlorella vulgaris (Fresh water algae) - 170.00 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Bioaccumulation: Lepomis macrochirus (Bluegill) - 28 d - 0.00918 mg/l

Bioconcentration factor (BCF): 214

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2021 Class: 6.1 Packing group: III
Proper shipping name: Chlorophenols, liquid
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 2021 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: CHLOROPHENOLS, LIQUID

IATA
UN number: 2021 Class: 6.1 Packing group: III
Proper shipping name: Chlorophenols, liquid

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
2-Chlorophenol	95-57-8	1993-04-24

Massachusetts Right To Know Components

	CAS-No.	Revision Date
2-Chlorophenol	95-57-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
2-Chlorophenol	95-57-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
2-Chlorophenol	95-57-8	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Flam. Liq.	Flammable liquids
H227	Combustible liquid.
H302	Harmful if swallowed.
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	2
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	2
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.5 Revision Date: 08/10/2016 Print Date: 11/13/2016

Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **2-Methylnaphthalene, 99% (gc)**

Cat No. : **AC414551000; AC414555000**

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word
Warning

Hazard Statements
Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation



Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
2-Methylnaphthalene	91-57-6	99.0

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes.

Inhalation Move to fresh air.

Ingestion Do not induce vomiting.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
None known
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up No information available.

7. Handling and storage

Handling Ensure adequate ventilation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Methylnaphthalene	TWA: 0.5 ppm Skin		

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
2-Methylnaphthalene			TWA: 0.5 ppm Skin

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	No information available
Odor	Odorless
Odor Threshold	No information available
pH	
Melting Point/Range	37 38 °C
Boiling Point/Range	°C
Flash Point	
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	< 1 mmHg @ 25 °C
Vapor Density	No information available
Relative Density	1.0000
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C11H10
Molecular Weight	142.20

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Methylnaphthalene	1630 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
2-Methylnaphthalene	91-57-6	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
2-Methylnaphthalene	Not listed	Pimephales promelas:LC50 = 2.5mg/L	Not listed	EC50 = 1.5 mg/L/48h

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

Component	log Pow
2-Methylnaphthalene	3.86

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
2-Methylnaphthalene	X	X	-	202-078-3	-		X	X	X	X	-

Legend:

X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
2-Methylnaphthalene	-	X	-	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1B Toxic materials

D2B Toxic materials



16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 5.1
Revision Date 06/26/2014
Print Date 05/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 4,4′-DDD

Product Number : 35486
Brand : Sigma-Aldrich

CAS-No. : 72-54-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P322	Specific measures (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane TDE
Formula	:	$C_{14}H_{10}Cl_4$
Molecular Weight	:	320.04 g/mol
CAS-No.	:	72-54-8
EC-No.	:	200-783-0

Hazardous components

Component	Classification	Concentration
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H410	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas
Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	94.0 - 96.0 °C (201.2 - 204.8 °F)
f)	Initial boiling point and boiling range	193.0 °C (379.4 °F) at 1.3 hPa (1.0 mmHg)
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	< 0.00001 hPa (< 0.00001 mmHg) at 25.0 °C (77.0 °F)
l)	Vapour density	no data available
m)	Relative density	1.38 g/cm3
n)	Water solubility	no data available
o)	Partition coefficient: n-octanol/water	log Pow: 6.02
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Hamster - > 5,000 mg/kg

TDLo Oral - Human - 428.5 mg/kg
Remarks: Endocrine:Adrenal cortex hypoplasia.

TDLo Oral - rat - 6,000 mg/kg
Remarks: Cardiac:Other changes. Gastrointestinal:Other changes. Kidney, Ureter, Bladder:Changes in both tubules and glomeruli.

TDLo Oral - rat - 14 mg/kg
Remarks: Liver:Changes in liver weight. Endocrine:Estrogenic. Musculoskeletal:Other changes.

TDLo Oral - rat - 2,100 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex).

Inhalation: no data available

LD50 Dermal - rabbit - 1,200 mg/kg
Remarks: Behavioral:Excitement. Behavioral:Convulsions or effect on seizure threshold. Skin irritation

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: KI0700000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - other fish - 1.18 - 9 mg/l - 96.0 h
	LC50 - Lepomis macrochirus (Bluegill) - 0.04 - 0.05 mg/l - 96.0 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.06 - 0.09 mg/l - 96.0 h
	LC50 - Pimephales promelas (fathead minnow) - 3.47 - 5.58 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia pulex (Water flea) - 0.01 mg/l - 48 h

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
Indication of bioaccumulation.

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)
Reportable Quantity (RQ): 1 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)
Marine pollutant: No

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	72-54-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	72-54-8	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	72-54-8	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.1 Revision Date: 06/26/2014 Print Date: 05/11/2016

SAFETY DATA SHEET

Version 6.7
Revision Date 08/05/2024
Print Date 08/06/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : *p*-Cymene

Product Number : W235601
Brand : Aldrich
Index-No. : 601-094-00-1
CAS-No. : 99-87-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226
Acute toxicity, Inhalation (Category 3), H331
Reproductive toxicity (Category 2), H361

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Aspiration hazard (Category 1), H304
Short-term (acute) aquatic hazard (Category 2), H401
Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard Statements

H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H331	Toxic if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist or vapors.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May form explosive peroxides.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : 1-Isopropyl-4-methylbenzene
4-Isopropyltoluene

Formula : $C_{10}H_{14}$
Molecular weight : 134.22 g/mol
CAS-No. : 99-87-6
EC-No. : 202-796-7
Index-No. : 601-094-00-1

Component	Classification	Concentration
p-Cymene		
	Flam. Liq. 3; Acute Tox. 3; Repr. 2; Asp. Tox. 1; Aquatic Acute 2; Aquatic Chronic 2; H226, H331, H361, H304, H401, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

No data available

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

No data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Combustible.

5.3 Advice for firefighters

No data available

5.4 Further information

No data available

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For personal protection see section 8.

6.2 Environmental precautions
No data available

6.3 Methods and materials for containment and cleaning up
No data available

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
No data available

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls
No data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Color: colorless
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/freezing point: < -20 °C (< -4 °F) - OECD Test Guideline 102
f)	Initial boiling point	176 - 178 °C 349 - 352 °F - lit.

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	and boiling range	
g)	Flash point	52 °C (126 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 5.6 %(V) Lower explosion limit: 0.7 %(V)
k)	Vapor pressure	3.6 hPa at 25 °C (77 °F) - OECD Test Guideline 104
l)	Vapor density	No data available
m)	Density	0.86 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	0.015 g/l at 20 °C (68 °F) - OECD Test Guideline 105
o)	Partition coefficient: n-octanol/water	log Pow: 4.8 at ca.20 °C (ca.68 °F) - OECD Test Guideline 117
p)	Autoignition temperature	> 400 °C (> 752 °F) at 994 hPa
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

Solubility in other solvents	Alcohol - soluble

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.
Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

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10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male and female - 4,750 mg/kg
Acute toxicity estimate Inhalation - 4 h - 3 mg/l - vapor

(Expert judgment)
Remarks: (Regulation (EC) No 1272/2008, Annex VI)
LD50 Dermal - Rabbit - > 5,000 mg/kg
Remarks: (ECHA)
No data available

Skin corrosion/irritation
Remarks: No data available
Skin - reconstructed human epidermis (RhE)
Result: No skin irritation
(OECD Test Guideline 439)

Serious eye damage/eye irritation
Eyes - Humans
Result: No eye irritation
(OECD Test Guideline 492)

Respiratory or skin sensitization
Local lymph node assay (LLNA) - Mouse
Result: negative
(OECD Test Guideline 429)

Germ cell mutagenicity
Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Suspected of damaging fertility.

Developmental Toxicity- Rat- male and female- Oral

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
May be fatal if swallowed and enters airways.

11.2 Additional Information

Repeated dose toxicity - Rat - male - Oral - NOAEL (No observed adverse effect level) - 50 mg/kg

Repeated dose toxicity - Rat - male - Inhalation
Remarks: (ECHA)

RTECS: GZ5950000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	static test LC50 - Cyprinodon variegatus (sheepshead minnow) - 48 mg/l - 96 h (OPPTS 850.1075)
Toxicity to daphnia and other aquatic invertebrates	semi-static test EC50 - Daphnia magna (Water flea) - 3.7 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test EC50 - Scenedesmus capricornutum (fresh water algae) - 4.03 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test NOEC - activated sludge - 100 mg/l - 28 d

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 14 d Result: 88 % - Readily biodegradable. (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

No data available

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12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods
No data available

SECTION 14: Transport information

DOT (US)
UN number: 2046 Class: 3 Packing group: III
Proper shipping name: Cymenes
Reportable Quantity (RQ):
Marine pollutant: yes Poison Inhalation Hazard: No

IMDG
UN number: 2046 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: CYMENES
Marine pollutant : yes
Marine pollutant : yes

IATA
UN number: 2046 Class: 3 Packing group: III
Proper shipping name: Cymenes

SECTION 15: Regulatory information

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

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SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

p-Cymene	99-87-6

Pennsylvania Right To Know

p-Cymene	99-87-6

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.7 Revision Date: 08/05/2024 Print Date: 08/06/2024

The life science business of Merck KGaA, Darmstadt, Germany
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SAFETY DATA SHEET

Version 5.4
Revision Date 01/02/2015
Print Date 12/11/2015

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Acenaphthene

Product Number : 215376
Brand : Aldrich

CAS-No. : 83-32-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H350 May cause cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P280	Wear protective gloves.
P281	Use personal protective equipment as required.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,8-Ethylenenaphthalene
Formula	:	$C_{12}H_{10}$
Molecular weight	:	154.21 g/mol
CAS-No.	:	83-32-9
EC-No.	:	201-469-6

Hazardous components

Component	Classification	Concentration
Acenaphthene		
	Skin Irrit. 2; Eye Irrit. 2A; Carc. 1B; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H315, H319, H335, H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 90 - 94 °C (194 - 201 °F) - lit.
f)	Initial boiling point and boiling range	279 °C (534 °F) - lit.
g)	Flash point	125.0 °C (257.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available

k)	Vapour pressure	13.3 hPa (10.0 mmHg) at 131.0 °C (267.8 °F)
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.39 - 4.19
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Rat - 600 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Acenaphthene)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Reasonably anticipated to be a human carcinogen (Acenaphthene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: AB1000000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.67 mg/l - 96.0 h
	LC50 - Pimephales promelas (fathead minnow) - 0.6 - 1.73 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1.27 - 3.45 mg/l - 48 h
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 0.52 - 0.53 mg/l - 96 h

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation	Lepomis macrochirus (Bluegill) - 28 d - 0.00894 mg/l
	Bioconcentration factor (BCF): 387

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Acenaphthene)
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Acenaphthene)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Acenaphthene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Acenaphthene	83-32-9	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Acenaphthene	83-32-9	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Acenaphthene	83-32-9	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Acenaphthene	83-32-9	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	1
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	1
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.4 Revision Date: 01/02/2015 Print Date: 12/11/2015

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Poly(acenaphthylene)**

Cat No. : **AC178020000; AC178020050; AC178020100**

Synonyms None.

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements
None required

Hazards not otherwise classified (HNOC)
None identified

Unknown Acute Toxicity
.? % of the mixture consists of ingredients of unknown toxicity.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Poly(acenaphthylene)	25036-01-5	100

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Inhalation Remove from exposure, lie down. Move to fresh air.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If possible drink milk afterwards.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Thermal decomposition can lead to release of irritating gases and vapors Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage

Handling Avoid contact with skin and eyes. Avoid contact with clothing. Remove and wash contaminated clothing before re-use. Avoid breathing vapors or mists. Do not ingest. Wash thoroughly after handling.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ventilation systems.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Oxidizing agents

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization No information available.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Mist LC50 Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.
Component Information
Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Poly(acenaphthylene)	25036-01-5	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

International Inventories

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class Non-controlled

16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 6.11
Revision Date 09/06/2024
Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Acetone

Product Number : 179124
Brand : SIGALD
Index-No. : 606-001-00-8
CAS-No. : 67-64-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: Danger

Hazard Statements

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary Statements

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist or vapors.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	C_3H_6O
Molecular weight	:	58.08 g/mol
CAS-No.	:	67-64-1
EC-No.	:	200-662-2
Index-No.	:	606-001-00-8

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Component	Classification	Concentration
acetone		
	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336 Concentration limits: >= 20 %: STOT SE 3, H336;	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Combustible.
Pay attention to flashback.
Vapors are heavier than air and may spread along floors.
Development of hazardous combustion gases or vapours possible in the event of fire.
Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.
Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®).
Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
acetone	67-64-1	TWA	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifiable as a human carcinogen		
		STEL	500 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Not classifiable as a human carcinogen		
		TWA	250 ppm 590 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 2,400 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		C	3,000 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	500 ppm 1,200 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	750 ppm 1,780 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
acetone	67-64-1	Acetone	25 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

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Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Workers	Skin contact	Long-term systemic effects	186mg/kg BW/d
Consumers	Ingestion	Long-term systemic effects	62mg/kg BW/d
Consumers	Skin contact	Long-term systemic effects	62mg/kg BW/d
Workers	Inhalation	Acute systemic effects	2420 mg/m3
Workers	Inhalation	Long-term systemic effects	1210 mg/m3
Consumers	Inhalation	Long-term systemic effects	200 mg/m3

Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	33.3 mg/kg
Sea water	1.06 mg/l
Fresh water	10.6 mg/l
Sea sediment	3.04 mg/kg
Fresh water sediment	30.4 mg/kg
Onsite sewage treatment plant	100 mg/l

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: butyl-rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Butoject® (KCL 898)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Latex gloves
Minimum layer thickness: 0.6 mm
Break through time: 10 min
Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M)

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Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter type AX
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Color: colorless
b)	Odor	pungent, weakly aromatic
c)	Odor Threshold	0.1 ppm
d)	pH	5 - 6 at 395 g/l at 20 °C (68 °F)
e)	Melting point/freezing point	Melting point/ range: -94 °C (-137 °F) - lit.
f)	Initial boiling point and boiling range	56 °C 133 °F at 1,013 hPa - lit.
g)	Flash point	-17.0 °C (1.4 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 13 %(V) Lower explosion limit: 2 %(V)
k)	Vapor pressure	245.3 hPa at 20.0 °C (68.0 °F)
l)	Vapor density	No data available
m)	Density	0.791 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	soluble, in all proportions
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition	465.0 °C (869.0 °F)

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	temperature	
q)	Decomposition temperature	Distillable in an undecomposed state at normal pressure.
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

Conductivity	0.01 µS/cm at 20 °C (68 °F)
Surface tension	23.2 mN/m at 20.0 °C (68.0 °F)

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapours with:
chromosulfuric acid
chromyl chloride
ethanolamine
Fluorine
Strong oxidizing agents
strong reducing agents
Nitric acid
chromium(VI) oxide
Risk of explosion with:
nonmetallic oxyhalides
halogen-halogen compounds
Chloroform
nitrating acid
nitrosyl compounds
hydrogen peroxide
halogen oxides
organic nitro compounds
peroxi compounds
Exothermic reaction with:
Bromine
Alkali metals
alkali hydroxides
Halogenated hydrocarbon
Sulfur dichloride
phosphorous oxichloride

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10.4 Conditions to avoid
Warming.

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - female - 5,800 mg/kg
Remarks: (ECHA)
Symptoms: Stomach/intestinal disorders, Risk of aspiration upon vomiting., Pulmonary failure possible after aspiration of vomit.
LC50 Inhalation - Rat - 4 h - 76 mg/l - vapor

Remarks: Unconsciousness
Drowsiness
Dizziness
(External MSDS)
LD50 Dermal - Rabbit - 20,000 mg/kg
Remarks: (IUCLID)

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h
(Draize Test)
Remarks: (RTECS)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation - 24 h
(Draize Test)
Remarks: (RTECS)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
Remarks: (ECHA)
Chronic exposure may cause dermatitis.

Germ cell mutagenicity
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 471
Result: negative
Test Type: In vitro mammalian cell gene mutation test
Test system: Mouse lymphoma test
Metabolic activation: without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
Inhalation - May cause drowsiness or dizziness. - Narcotic effects
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: AL3150000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

Headache
Salivation
Nausea
Vomiting
Dizziness
narcosis
Coma

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Kidney - Irregularities - Based on Human Evidence

Skin - Dermatitis - Based on Human Evidence

Kidney - Irregularities - Based on Human Evidence

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Skin - Dermatitis - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 6,210 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia pulex (Water flea) - 8,800 mg/l - 48 h Remarks: (ECHA)
Toxicity to algae	static test NOEC - M.aeruginosa - 530 mg/l - 8 d (DIN 38412) Remarks: (maximum permissible toxic concentration) (IUCLID)
Toxicity to bacteria	static test EC50 - activated sludge - 61.15 mg/l - 30 min (OECD Test Guideline 209)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	flow-through test NOEC - Daphnia magna (Water flea) - 2,212 mg/l - 28 d Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 91 % - Readily biodegradable. (OECD Test Guideline 301B)
Biochemical Oxygen Demand (BOD)	1,850 mg/g Remarks: (IUCLID)
Chemical Oxygen Demand (COD)	2,070 mg/g Remarks: (IUCLID)
Theoretical oxygen demand	2,200 mg/g Remarks: (Lit.)

12.3 Bioaccumulative potential

Does not bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

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12.7 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 1090 Class: 3 Packing group: II
Proper shipping name: Acetone
Reportable Quantity (RQ): 5000 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1090 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: ACETONE

IATA
UN number: 1090 Class: 3 Packing group: II
Proper shipping name: Acetone

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
acetone	67-64-1	5000	5000

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

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SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

acetone	67-64-1

Pennsylvania Right To Know

acetone	67-64-1

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.11 Revision Date: 09/06/2024 Print Date: 09/07/2024

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Safety Data Sheet

Revision Date: 10/21/14
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**32205, 32205-5XX, & 32305 / Aldrin Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	sds@restek.com
Revision Number:	5
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Flammable Liquid Category 2
Acute Toxicity - Inhalation Dust / Mist Category 3
Acute Toxicity - Inhalation Vapour Category 3
Acute Toxicity - Inhalation Gas Category 3
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:

Danger

GHS Hazard:

Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Toxic if inhaled.
Causes damage to organs.

GHS Precautions:

Safety Precautions:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do no eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:

IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed: Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see section 4.

	Specific measures see section 4. Rinse mouth. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. In case of fire: Use extinguishing media in section 5 for extinction.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS.
Single Exposure Target Organs:	No data available.
Repeated Exposure Target Organs:	No data available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	99.900000
aldrin	309-00-2	206-215-8	0.100000

4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately
Eyes:	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.
Fire and/or Explosion Hazards:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.
Methods for Clean-up:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal

protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
aldrin	309-00-2	ND		0.05 mg/m3 TWA (inhalable fraction and vapor)	0.25 mg/m3 TWA

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available.
Odor:	Mild
Physical State:	No data available.
pH:	No data available
Vapor Density:	1.1 (air = 1)
Melting Point:	-98 °C
Flash Point:	52
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36.0
Lower Flammable/Explosive Limit, % in air:	6.0
Autoignition Temperature:	464 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available.
Odor Threshold:	No data available.
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	99.90
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion

Target Organs Potentially Affected By Exposure: Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Inhalation Toxicity: Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.

Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.

Ingestion Toxicity: Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity: Contains a probable or known human carcinogen.

Reproductive and Developmental Toxicity: Contains a known human reproductive and/or developmental hazard.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Ingestion: Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methanol	67-56-1	Oral LD50 Rat 5628 mg/kg (Source: NLM_CIP); Inhalation LC50 Rat 83.2 mg/L 4 h (Source: IUCLID)

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.
No data available.	

ACGIH:

Chemical Name	CAS No.
No data available.	

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1
No data.		Group 2A
No data.		Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous

to plants and/or wildlife.

Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: Biodegrades slowly.
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Methanol
UN Number: UN1230
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Methanol
UN Number: UN1230
Hazard Class: 3 (6.1)
Packing Group: II

Marine Pollutant: No

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
aldrin	309-00-2	X	X	X	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Aldrin	309-00-2	Prop 65 Cancer
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
aldrin	309-00-2	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 03/23/11
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SAFETY DATA SHEET

Version 5.8
Revision Date 06/02/2016
Print Date 08/02/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : α-BHC

Product Number : 48493
Brand : Supelco
Index-No. : 602-042-00-0

CAS-No. : 319-84-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P281	Use personal protective equipment as required.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	α-1,2,3,4,5,6-Hexachlorocyclohexane
Formula	:	C6H6Cl6
Molecular weight	:	290.83 g/mol
CAS-No.	:	319-84-6
EC-No.	:	206-270-8
Index-No.	:	602-042-00-0

Hazardous components

Component	Classification	Concentration
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	156.0 - 161.0 °C (312.8 - 321.8 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.80
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 177.0 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
IARC:	2B - Group 2B: Possibly carcinogenic to humans ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	Reasonably anticipated to be a human carcinogen ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
NTP:	Reasonably anticipated to be a human carcinogen ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GV3500000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Carassius auratus (goldfish) - 0.12 mg/l - 48.0 h
	LC50 - Cyprinus carpio (Carp) - 0.2 mg/l - 48.0 h
	LC50 - other fish - 1.49 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.20 - 1.70 mg/l - 48 h
Toxicity to algae	EC50 - No information available. - > 100.00 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Bioaccumulation other fish - 96 h
- 0.8 mg/l

Bioconcentration factor (BCF): 250

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
Reportable Quantity (RQ): 10 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-84-6	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-84-6	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-84-6	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-84-6	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. (1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	CAS-No. 319-84-6	Revision Date 2009-02-01
WARNING! This product contains a chemical known to the State of California to cause cancer. (1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	CAS-No. 319-84-6	Revision Date 2009-02-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity

Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0
Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.8 Revision Date: 06/02/2016 Print Date: 08/02/2019

SAFETY DATA SHEET

Version 4.8
Revision Date 05/03/2017
Print Date 07/13/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : α-Chlordane

Product Number : 442449
Brand : Supelco

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)

H302 + H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Molecular weight : 409.8 g/mol
EC-No. : 225-825-5

Hazardous components

Component	Classification	Concentration
Chlordane		
	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H302 + H332, H315, H319, H335, H351, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	93.0 - 94.0 °C (199.4 - 201.2 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available

i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 500 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chlordane)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 0.0074 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Lepomis macrochirus (Bluegill) - 24 h - 0.005 mg/l
	Bioconcentration factor (BCF): 322

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Chlordane)
Reportable Quantity (RQ): Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlordane)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Chlordane)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Chlordane	5103-71-9	

	CAS-No.	Revision Date
Chlordane	5103-71-9	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Chlordane	5103-71-9	

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.8 Revision Date: 05/03/2017 Print Date: 07/13/2017

SAFETY DATA SHEET
Aluminum (pieces)

1. Identification

Product identifier

Product name Aluminum (pieces)

Internal identification Replaces M-1000-010

CAS number 7429-90-5

Recommended use of the chemical and restrictions on use

Application Exterior surface coating.

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier Kurt J Lesker Company

Manufacturer Kurt J Lesker Company
1925 Route 51
Jefferson Hills, PA 15025
+1 412-387-9200

Kurt J Lesker Company LTD
United Kingdom
15-16 Burgess Road
Hastings, East Sussex, TN35 4NR
England
Customer Service: +44 (0) 1424 458100
msds@lesker.com

Emergency telephone number

Emergency telephone North America [USA, Canada, Mexico]: 1-866-519-4752
Mainland China: (+86) 4001 2001 74
Europe: {int'l call prefix}-1-760-476-3961
Asia Pacific: {int'l call prefix}-1-760-476-3960
Middle East & Africa: {int'l call prefix}-1-760-476-3959

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

Other hazards

Aluminum (pieces)

This product does not contain any substances classified as PBT or vPvB. Based on available knowledge of this material, it has been determined to be non-hazardous and will not pose a risk to persons or the environment in its provided form. However, any cutting, welding, melting, grinding, or use for deposition will produce dust, fume, or particulates containing component elements of this material. Exposure to these components may present significant health hazards. Note: Fine particulate may be a combustible dust which, when dispersed in air, may present an explosion hazard.

3. Composition/information on ingredients

Mixtures

Aluminum (pieces) CAS number: 7429-90-5	**0 - 100%**

Classification
Not Classified

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

Ingestion Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.

Skin Contact Rinse with water.

Eye contact Rinse with water. Get medical attention if any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact No specific symptoms known. May be slightly irritating to eyes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water, if avoidable.

Aluminum (pieces)

Special hazards arising from the substance or mixture

Specific hazards Reacts with water. Flammable solid. Dust may form explosive mixture with air. Fire-water run-off in sewers may create fire or explosion hazard.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapors. Evacuate area. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated.

Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from oxidizing materials, heat and flames. Avoid contact with water. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Aluminum (pieces)

Storage class Water-reactive storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Aluminum (pieces)

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
as Al
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
as Al
Long-term exposure limit (8-hour TWA): ACGIH 1 mg/m³ respirable fraction
A4
OSHA = Occupational Safety and Health Administration.
ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Protective equipment



Appropriate engineering controls Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection No specific hand protection recommended.

Other skin and body protection Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

Environmental exposure controls Keep container tightly sealed when not in use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Solid.

Color Silver.

Odor No characteristic odor.

Odor threshold Not applicable.

Aluminum (pieces)

pH	Not applicable.
Melting point	660°C
Initial boiling point and range	Not available.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	2.70 @ 25°C
Bulk density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not available.
Viscosity	Not applicable.
Molecular weight	26.98

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	Reacts strongly with water. The following materials may react strongly with the product: Oxidizing agents.
Conditions to avoid	Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented.
Materials to avoid	Water. Oxidizing materials. Acids - oxidizing.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Aluminum (pieces)

Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitization

Respiratory sensitization Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Not relevant. Solid.

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin Contact Prolonged contact may cause dryness of the skin.

Eye contact No specific symptoms known.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target Organs No specific target organs known.

12. Ecological Information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity Based on available data the classification criteria are not met.

Persistence and degradability

Aluminum (pieces)

Persistence and degradability Reacts with water.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not applicable.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

No transport warning sign required.

Transport labels

No transport warning sign required.

DOT transport labels

No transport warning sign required.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Aluminum (pieces)

Based on available knowledge of this material, it has been determined to be non-hazardous and will not pose a risk to persons or the environment in its provided form. However, any cutting, welding, melting, grinding, or use for deposition will produce dust, fume, or particulates containing component elements of this material. Exposure to these components may present significant health hazards. Note: Fine particulate may be a combustible dust which, when dispersed in air, may present an explosion hazard.

DOT TIH Zone Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
None of the ingredients are listed or exempt.

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

FDA - Essential Chemical
None of the ingredients are listed or exempt.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List
None of the ingredients are listed or exempt.

Aluminum (pieces)

Rhode Island "Right To Know" List
None of the ingredients are listed or exempt.

Minnesota "Right To Know" List
None of the ingredients are listed or exempt.

New Jersey "Right To Know" List
None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List
None of the ingredients are listed or exempt.

Inventories

US - TSCA
None of the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed or exempt.

16. Other information

Training advice	Only trained personnel should use this material.
Revision date	5/9/2018
Revision	7
Supersedes date	5/9/2018
SDS No.	4661

End of SDS

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET

Version 4.9
Revision Date 04/20/2015
Print Date 12/11/2015

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Anthracene

Product Number : A89200
Brand : Aldrich

CAS-No. : 120-12-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

P280	Wear protective gloves.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Photosensitizer., Lachrymator.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{14}H_{10}$
Molecular weight	:	178.23 g/mol
CAS-No.	:	120-12-7
EC-No.	:	204-371-1

Hazardous components

Component	Classification	Concentration
Anthracene Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)		
	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H315, H319, H335, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Anthracene	120-12-7	TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	1910.1002 As used in §1910.1000 (Table Z-1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen		

		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cyclohexane-extractable fraction See Appendix C See Appendix A		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Anthracene	120-12-7	1-Hydroxypyrene (1-HP)		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Chloroprene
Minimum layer thickness: 0.6 mm
Break through time: 480 min
Material tested:Camapren® (KCL 722 / Aldrich Z677493, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 30 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: beige
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 210 - 215 °C (410 - 419 °F) - lit.
f)	Initial boiling point and boiling range	340 °C (644 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Lower explosion limit: 0.6 %(V)
k)	Vapour pressure	1.3 hPa (1.0 mmHg) at 145.0 °C (293.0 °F)
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 4.45
p)	Auto-ignition temperature	540.0 °C (1,004.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents, Hypochlorites

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Mouse - 430 mg/kg

Skin corrosion/irritation
Skin - Mouse
Result: Mild skin irritation

Serious eye damage/eye irritation
Irritating to eyes. The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

Respiratory or skin sensitisation
Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunburnlike responses to edematous, vesiculated lesions, or bullae

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (Anthracene)
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	OSHA specifically regulated carcinogen (Anthracene)

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.
The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CA9350000

Possible tumor promoter., Headache, Nausea, Weakness

Blood -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 0.001 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.10 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Indication of bioaccumulation.
Bioaccumulation Pimephales promelas (fathead minnow) - 42 d
- 0.01191 mg/l

Bioconcentration factor (BCF): 649

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Anthracene)
Reportable Quantity (RQ): 5000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Anthracene)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Anthracene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Anthracene	120-12-7	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.9 Revision Date: 04/20/2015 Print Date: 12/11/2015

Antimony

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 02/12/2014 Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier

Product Form: Substance

Product Name: Antimony

Synonyms: Stibium (Sb)

1.2. Intended Use of the Product No additional information available

1.3. Name, Address, and Telephone of the Responsible Party

Company

Atomized Products Group, Inc
3838 Miller Park Dr
Garland, TX 75042
T 972-272-9596
atomizedproductsgroup.com

1.4. Emergency Telephone Number

Emergency Number : 800-255-3924 (CHEMTEL)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Comb. Dust
Acute Tox. 3 (Oral) H301
Acute Tox. 4 (Inhalation:dust,mist) H332
Carc. 2 H351
Aquatic Acute 2 H401
Aquatic Chronic 2 H411

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



GHS06 GHS07 GHS08 GHS09

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : May form combustible dust concentrations in air
H301 - Toxic if swallowed
H332 - Harmful if inhaled
H351 - Suspected of causing cancer
H401 - Toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a POISON CENTER/doctor/physician if you feel unwell.
P321 - Specific treatment (see section 4).
P330 - If swallowed, rinse mouth.
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

2.3. Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. May form combustible dust concentrations in air. Exposure may aggravate individuals with pre-existing skin, kidney, liver, and pulmonary disorders. On burning release of harmful/irritant gases/vapours (antimony oxides). Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name : Antimony

Name	Product identifier	%	Classification (GHS-US)
Antimony	(CAS No) 7440-36-0	100	Comb. Dust Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Carc. 2, H351 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

First-aid Measures After Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention if a large amount is swallowed.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Suspected of causing cancer. Toxic if swallowed. Harmful if inhaled.

Symptoms/Injuries After Inhalation: Harmful if inhaled. Respiratory tract irritation.

Symptoms/Injuries After Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Ingestion: Toxic if swallowed. May cause nausea, vomiting, and diarrhea.

Chronic Symptoms: Prolonged exposure may cause effects in specific organs such as the liver, kidneys, blood, and nervous system.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures. Dust explosion hazard in air.

Explosion Hazard: Avoid dust clouds in combination with static electricity. Dust explosion hazard in air.

Reactivity: Hazardous reactions will not occur under normal conditions. Dust clouds can be explosive.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other information: Risk of dust explosion. Do not allow the product to be released into the environment. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust. Avoid generating dust. Avoid all contact with skin, eyes, or clothing.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Avoid generation of dust during clean-up of spills. Use only non-sparking tools.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills. Use only non-sparking tools. Use explosion proof vacuum during cleanup, with appropriate filter, do not mix with other materials. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Avoid dust production. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion, keep dust levels to a minimum and follow applicable regulations. Do not pressurize, cut, or weld containers. . On burning: release of harmful/irritant gases/vapours e.g.: (antimony oxides).

Precautions for Safe Handling: Use only non-sparking tools. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Handle in accordance with good industrial hygiene and safety procedures.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, ignition sources, incompatible materials.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Antimony (7440-36-0)		
USA ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.5 mg/m³

USA IDLH	US IDLH (mg/m³)	50 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.5 mg/m³

8.2. Exposure Controls

Appropriate Engineering Controls : Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment : Gloves. Protective goggles. Respiratory protection of the dependent type. Protective clothing.



Materials for Protective Clothing : Chemically resistant materials and fabrics.

Hand Protection : Wear chemically resistant protective gloves.

Eye Protection : Chemical goggles or safety glasses.

Skin and Body Protection : Wear suitable protective clothing.

Respiratory Protection : Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.

Thermal Hazard Protection : Wear suitable protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Solid

Odor : No data available

Odor Threshold : No data available

pH : No data available

Relative Evaporation Rate (butylacetate=1) : No data available

Melting Point : No data available

Freezing Point : No data available

Boiling Point : No data available

Flash Point : No data available

Auto-ignition Temperature : No data available

Decomposition Temperature : No data available

Flammability (solid, gas) : No data available

Vapor Pressure : No data available

Relative Vapor Density at 20 °C : No data available

Relative Density : No data available

Specific Gravity : No data available

Solubility : No data available

Log Pow : No data available

Log Kow : No data available

Viscosity, Kinematic : No data available

Viscosity, Dynamic : No data available

Explosive Properties : No data available

Oxidizing Properties : No data available

Explosive Limits : No data available

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Hazardous reactions will not occur under normal conditions. Dust clouds can be explosive.

10.2 Chemical Stability: Dust clouds can be explosive.

10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4 Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources. Incompatible materials.

10.5 Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Halogenated compounds.

10.6 Hazardous Decomposition Products: Antimony and its oxides. Metal oxides. Inhalation of fumes may cause metal fume fever.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Toxic if swallowed. Harmful if inhaled.

Antimony	
ATE (Oral)	500.000 mg/kg body weight
ATE (Dust/Mist)	1.500 mg/l/4h

Antimony (7440-36-0)	
LD50 Oral Rat	100 mg/kg
ATE (Oral)	100.000 mg/kg body weight

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Suspected of causing cancer.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Harmful if inhaled. Respiratory tract irritation.

Symptoms/Injuries After Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Ingestion: Toxic if swallowed. May cause nausea, vomiting, and diarrhea.

Chronic Symptoms: Prolonged exposure may cause effects in specific organs such as the liver, kidneys, blood, and nervous system.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Toxic to aquatic life with long lasting effects.

12.2. Persistence and Degradability

Antimony	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential No additional information available

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional Information: The materials contained within this product are hazardous to the environment, do not release into the environment.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : ANTIMONY POWDER
Hazard Class : 6.1
Identification Number : UN2871
Label Codes : 6.1
Packing Group : III
Marine Pollutant : Marine pollutant
ERG Number : 170



14.2 In Accordance with IMDG

Proper Shipping Name : ANTIMONY POWDER
Hazard Class : 6.1
Identification Number : UN2871
Packing Group : III
Label Codes : 6.1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-A
MFAG Number : 171



14.3 In Accordance with IATA

Proper Shipping Name : ANTIMONY POWDER
Packing Group : III
Identification Number : UN2871
Hazard Class : 6
Label Codes : 6.1
ERG Code (IATA) : 6L



SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Antimony	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard

Antimony (7440-36-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 - Emission Reporting	1.0 %

15.2 US State Regulations

Antimony (7440-36-0)
U.S. - California - Priority Toxic Pollutants - Human Health Criteria
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Level Goals (MCLGs)
U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Levels (MCLs)
U.S. - Connecticut - Drinking Water Quality Standards - Maximum Contaminant Levels
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Connecticut - Water Quality Standards - Consumption of Organisms Only
U.S. - Connecticut - Water Quality Standards - Consumption of Water and Organisms
U.S. - Connecticut - Water Quality Standards - Health Designations
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Florida - Drinking Water Standards - Inorganic Contaminants - Maximum Contaminant Levels (MCLs)
U.S. - Georgia - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - TWAs

U.S. - Illinois - Toxic Air Contaminants
U.S. - Louisiana - Reportable Quantity List for Pollutants
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants
U.S. - Maryland - Surface Water Quality Standards - Consumption of Organisms Only
U.S. - Maryland - Surface Water Quality Standards - Consumption of Water and Organisms
U.S. - Massachusetts - Allowable Ambient Limits (AALs)
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
U.S. - Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Michigan - Polluting Materials List
U.S. - Minnesota - Chemicals of High Concern
U.S. - Minnesota - Groundwater Health Risk Limits
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - Missouri - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Nebraska - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - New Hampshire - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
U.S. - New Jersey - Primary Drinking Water Standards - Maximum Contaminant Levels - MCLs
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Water Quality - Ground Water Quality Criteria
U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - North Dakota - Water Quality Standards - Human Health Value for Class III
U.S. - North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour
U.S. - Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S. - Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S. - Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Aquatic Organisms Only
U.S. - Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Water and Aquatic Organisms
U.S. - South Carolina - Maximum Contaminant Levels (MCLs)
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Drinking Water Standards - Maximum Contaminant Levels (MCLs)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Utah - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Vermont - Hazardous Waste - Hazardous Constituents
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Virginia - Water Quality Standards - Public Water Supply Effluent Limits
U.S. - Virginia - Water Quality Standards - Surface Waters Not Used for the Public Water Supply Effluent Limits

U.S. - Washington - Dangerous Waste - Dangerous Waste Constituents List
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

SECTION 16: OTHER INFORMATION

Revision date : 02/12/2014

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
	May form combustible dust concentrations in air
H301	Toxic if swallowed
H332	Harmful if inhaled
H351	Suspected of causing cancer
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom) - US

SAFETY DATA SHEET

Version 5.2
Revision Date 02/27/2015
Print Date 05/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Aroclor 1254

Product Number : 48586
Brand : Supelco
Index-No. : 602-039-00-4

CAS-No. : 11097-69-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H302 Harmful if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

P314	Get medical advice/ attention if you feel unwell.
P391	Collect spillage.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No. : 11097-69-1
Index-No. : 602-039-00-4

Hazardous components

Component	Classification	Concentration
Aroclor 1254		
	Acute Tox. 4; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H302, H373, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Nature of decomposition products not known.

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Non Combustible Liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Aroclor 1254	11097-69-1	TWA	0.5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	Skin designation		
		TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Liver damage Chloracne Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Liver damage Chloracne Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	0.5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		
		TWA	0.001000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition	No data available

temperature

r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 1,010 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Rat
Liver
Unscheduled DNA synthesis

Rat
Liver
DNA damage

Mouse
fibroblast
Morphological transformation.

Rat
Morphological transformation.

Rat
DNA damage

Rat
DNA damage

Carcinogenicity

Carcinogenicity - Rat - Oral
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Gastrointestinal:Tumors.

Carcinogenicity - Rat - Oral
Tumorigenic:Carcinogenic by RTECS criteria. Liver:Tumors.

Carcinogenicity - Mouse - Skin
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.
Tumorigenic:Tumors at site or application.

Carcinogenicity - Rat - Oral
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Gastrointestinal:Tumors.

Carcinogenicity - Mouse - Oral
Tumorigenic:Neoplastic by RTECS criteria. Liver:Tumors.

Carcinogenicity - Mouse - Intraperitoneal
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic Effects: Uterine tumors. Lungs, Thorax, or Respiration:Tumors.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Reproductive toxicity - Rabbit - Oral
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).
Effects on Fertility: Abortion. Effects on Embryo or Fetus: Fetal death.

Reproductive toxicity - Rabbit - Oral
Effects on Newborn: Biochemical and metabolic.

Reproductive toxicity - Rat - Oral
Effects on Newborn: Biochemical and metabolic.

Reproductive toxicity - Rat - Oral
Effects on Newborn: Behavioral.

Reproductive toxicity - Rat - Oral
Effects on Newborn: Delayed effects.

Reproductive toxicity - Rat - Intraperitoneal
Maternal Effects: Other effects. Effects on Newborn: Biochemical and metabolic.

Reproductive toxicity - Mouse - Oral
Effects on Newborn: Behavioral.

Reproductive toxicity - Mammal - Oral
Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated).

No data available

Developmental Toxicity - Rat - Oral

Specific Developmental Abnormalities: Hepatobiliary system.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.22 µg/l - 96.0 h
Toxicity to algae	LC50 - Algae - 0.015 mg/l - 28 h

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation	Pimephales promelas (fathead minnow) - 8 Months - 1.8 µg/l
	Bioconcentration factor (BCF): 238,000

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2315 Class: 9 Packing group: II
Proper shipping name: Polychlorinated biphenyls, liquid
Reportable Quantity (RQ): 1 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 2315 Class: 9 Packing group: II EMS-No: F-A, S-A

Proper shipping name: POLYCHLORINATED BIPHENYLS, LIQUID
Marine pollutant: yes

IATA

UN number: 2315 Class: 9 Packing group: II
Proper shipping name: Polychlorinated biphenyls, liquid

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Aroclor 1254	11097-69-1	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Aroclor 1254	11097-69-1	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Aroclor 1254	11097-69-1	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Aroclor 1254	CAS-No. 11097-69-1	Revision Date 1990-06-30
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Aroclor 1254	CAS-No. 11097-69-1	Revision Date 1990-06-30

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
STOT RE	Specific target organ toxicity - repeated exposure

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.2 Revision Date: 02/27/2015 Print Date: 05/01/2016

SAFETY DATA SHEET

Version 5.3
Revision Date 06/25/2015
Print Date 05/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : AROCLOR 1260

Product Number : CRM48736
Brand : Supelco

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 1B), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H350 May cause cancer.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Component		Classification	Concentration
Distillates (petroleum), hydrotreated middle			
CAS-No. EC-No. Index-No.	64742-46-7 265-148-2 649-221-00-X	Carc. 1B; H350	>= 90 - <= 100 %
Baseoil - unspecified			
CAS-No. EC-No. Index-No.	64742-53-6 265-156-6 649-466-00-2	Carc. 1B; H350	>= 30 - < 50 %
2,6-di-tert-Butyl-p-cresol			
CAS-No. EC-No.	128-37-0 204-881-4	Aquatic Acute 1; Aquatic Chronic 1; H410	>= 0.1 - < 1 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Nature of decomposition products not known.

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Distillates (petroleum), hydrotreated middle	64742-46-7	TWA	500.000000 ppm 2,000.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	The value in mg/m3 is approximate.		

		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10 mg/m3	USA. NIOSH Recommended Exposure Limits
Baseoil - unspecified	64742-53-6	TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (2,6-di-tert-Butyl-p-cresol)
IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (Distillates (petroleum), hydrotreated middle)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Nerves. - (Aroclor 1260)

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Distillates (petroleum), hydrotreated middle	64742-46-7	1989-08-11
Baseoil - unspecified	64742-53-6	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Distillates (petroleum), hydrotreated middle	64742-46-7	1989-08-11
Baseoil - unspecified	64742-53-6	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Distillates (petroleum), hydrotreated middle	64742-46-7	1989-08-11
Baseoil - unspecified	64742-53-6	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Aroclor 1260	11096-82-5	2008-08-01
Distillates (petroleum), hydrotreated middle	64742-46-7	2013-12-20

WARNING: This product contains a chemical known to the	CAS-No.	Revision Date

State of California to cause birth defects or other reproductive harm. Aroclor 1260	11096-82-5	2008-08-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.3 Revision Date: 06/25/2015 Print Date: 05/11/2016

AccuStandard, Inc.
125 Market St., New Haven, CT 06513 USA
Tel: 203-786-5290 Fax: 203-786-5287

SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 - Product Identifiers

Catalog Name: C-268S-M

Description: Aroclor 1268 in Methanol

1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

1.3 - Supplier Details

Company: AccuStandard, Inc.
125 Market St.
New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

1.4 - Emergency Telephone Number

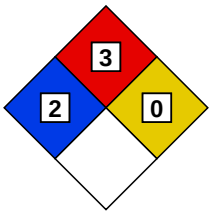
Emergency Phone #: AccuStandard, Inc.
1-203-502-7070 (USA)
+001-203-502-7070 (International)

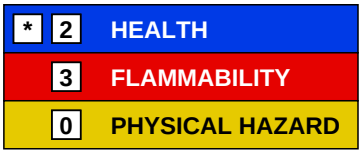
24 hours / 7 days a week

SECTION 2 - HAZARDS IDENTIFICATION

2.1 - GHS Label Elements







Signal Word: Danger

Hazard Codes:

H225 - Highly Flammable (Flammable liquids, category 2)

H301 - Toxic if swallowed. (Acute toxicity, oral, category 3)

H311 - Toxic if absorbed through skin. (Acute toxicity, dermal, category 3)

H315 - Irritating to skin. (Skin corrosion/irritation, category 2)

H320 - Irritating to eyes. (Eye damage/irritation, category 2B)

H332 - Harmful if inhaled. (Acute toxicity, inhalation, category 4)

H336 - Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

H360 - California Proposition 65 Warning: This product contains a component (or components) that may cause birth defects or other reproductive harm in a quantity greater than or equal to 0.1%.

H370 - Causes damage to organs. (Specific target organ toxicity, single exposure, category 1)

Precautionary Codes:

SECTION 2 - HAZARDS IDENTIFICATION *- continued*

2.1 - GHS Label Elements *- continued*

P202 - This product should only by used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P280 - Protective gloves must be worn to prevent skin contact.

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P331 - Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P360 - Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

2.2 - Other Hazards

2.2.1 - Symptom of Exposure Health/Environment

Highly Flammable (Flammable liquids, category 2)

Causes damage to organs. (Specific target organ toxicity, single exposure, category 1)

After ingestion or inhalation, initial symptoms may be only that of mild intoxication, but may become severe after 12 or 18 hours.

POISON: May be fatal or cause blindness if swallowed.

Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

2.2.2 - Potential Health Effects

Irritating to eyes. (Eye damage/irritation, category 2B)

Irritating to skin. (Skin corrosion/irritation, category 2)

Toxic if absorbed through skin. (Acute toxicity, dermal, category 3)

Irritating to mucous membrane and upper respiratory system.

Harmful if inhaled. (Acute toxicity, inhalation, category 4)

Toxic if swallowed. (Acute toxicity, oral, category 3)

2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

2.2.4 - Carcinogenicity

California Proposition 65 Warning: This product contains a component (or components) that may cause birth defects or other reproductive harm in a quantity greater than or equal to 0.1%.

California Proposition 65 Warning: This product contains a component (or components) that may cause cancer in a concentration less than 0.1%.

Contains one or more components that are classified (ACGIH, IARC, NTP, OSHA) as a possible cancer hazard in quantities less than 0.1%.

SECTION 3 - COMPOSITION / ANALYTES DATA

Description: Aroclor 1268 in Methanol

			ACGIH -TLV (mg/m³)			OSHA -PEL (mg/m³)		
Analyte	CAS #	% Concentration	TWA	STEL	Skin	TWA	STEL	Skin
Aroclor 1268	11100-14-4	0.004						
Methanol	67-56-1	99.996				260		

SECTION 4 - FIRST AID MEASURES

4.1 - First Aid Procedures - General

Get medical assistance for all cases of overexposure.

4.2 - Eye Contact

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. (P338)

4.3 - Skin Contact

Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. (P360)

4.4 - Inhalation

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

4.5 - Ingestion

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. (P331)

SECTION 5 - FIRE FIGHTING MEASURES

5.1 - Flammable Properties

Dangerous fire and explosive hazard.

Containers can build up pressure if exposed to heat.

Vapors can travel to a source of ignition and flash back.

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

5.2 - Extinguishing Media

Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

5.3 - Protection of Firefighters

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 - Spill Response

Wear suitable protective equipment listed under Exposure Controls / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Dispose as hazardous waste. Comply with Federal, State and local regulations.

SECTION 7 - HANDLING AND STORAGE

Store in a tightly closed container. (P404)

Store in a cool area away from ignition sources and oxidizers.

Sonicate before use.

Avoid breathing vapors or mists.

Use with adequate ventilation.

Do not get in eyes, on skin or clothing. (P262)

Avoid prolonged or repeated exposure.

This product should only by used by persons trained in the safe handling of hazardous chemicals. (P202)

SECTION 8 - EXPOSURE CONTROLS

8.1 - Engineering Controls/PPE

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

8.2 - General Hygene Considerations

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Protective gloves must be worn to prevent skin contact. (P280)

(Chloroprene, natural rubber, nitrile, or equivalent)

Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

All recommendations are advisory only and must be evaluated by an industrial hygienist and/or safety officer familiar with the specific situation of anticipated use, such as concentration and amount of the substance in the workplace. Any recommendation should not be construed as offering an approval for any specific use of the product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Odor: N/A

Odor Threshold: N/A

pH: N/A

Melting Point: -93.9 °C

Boiling Point: 65 °C

Flash Point: 52 °F (11 °C) (tcc)

Evaporation Rate (Butyl Acetate=1): 5.9

Flammability Class: N/A

Lower Flammability Level: 6.7

Upper Flammability Level: 36.5

Vapor Pressure: 97 mmHg (20 °C)

Vapor Density (Air = 1): 1.1 g/L

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES *- continued*

Specific Gravity: 0.791 g/cm3

Solubility in Water: Very soluble

Partition Coefficient: log Pow: -0.77

Autoignition Temperature: 385 °C

Decomposition Temperature: N/A

Viscosity: N/A

VOC Content: N/A

Percent Volatile: 99.9+

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Acids
Oxidizers

Hazardous Decomposition: Oxides of carbon; Formaldehyde

Hazardous Polymerization: Will not occur

Condition to Avoid: Heat; Contact with ignition sources

SECTION 11 - TOXICOLOGICAL INFORMATION

Human Health Toxicity

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): Human - 143 mg/kg; Rat - 1500 mg/kg

LD50 (Dermal) : Rabbit - >2000 mg/kg

LC50 (Inhalation): Rat - >20 mg/L

WARNING: This product contains chemical(s) known to the state of California to cause cancer and to cause birth defects or other reproductive harm.

No other information related to the toxicological properties of this product is available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Toxicity

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): >1000 mg/L 96H

EC50 (Aquatic Invertebrate): >1000 mg/L 48H

BCF: 1.0

Hydrolyzes readily on contact with water. Readily biodegradable.

No other information related to the ecological properties of this product is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

Transportation Information (DOT/IATA)

UN Number: UN1230

Class: 3

Packing Group: II

Proper Shipping Name: Methanol

Poison by Inhalation: No

Marine Pollutant: No

SECTION 15 - REGULATORY INFORMATION

WARNING: This product contains chemical(s) known to the state of California to cause cancer and to cause birth defects or other reproductive harm.

This product contains a compound or compounds subject to EU Regulation (EC) No 1907/2006 (REACH) on Annex XIV, Annex XVII, and/or Article 59. Refer to the below table for details.

This product is subject to SARA section 313 reporting requirements.

All components are listed on the TSCA Inventory.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

			REACH (1907/2006)		
Analyte	CAS #	% Concentration	Annex XIV	Annex XVII	Article 59
Methanol	67-56-1	99.996		X	

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals and CLP Regulation (EC) No. 1272/2008.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

HMIS/NFPA HAZARD INDEX

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Severe

* - Additional Hazard

GHS HAZARD INDEX

Category 1 - Most Severe
Category 5 - Least Severe

**** End of Document ****

SAFETY DATA SHEET

Version 6.10
Revision Date 09/06/2024
Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Arsenic

Product Number : 202657
Brand : Aldrich
Index-No. : 033-001-00-X
CAS-No. : 7440-38-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Skin irritation (Category 2), H315

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Serious eye damage (Category 1), H318
Carcinogenicity (Category 1A), H350
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word	Danger
Hazard Statements	
H301 + H331	Toxic if swallowed or if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary Statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	As
Molecular weight	:	74.92 g/mol
CAS-No.	:	7440-38-2
EC-No.	:	231-148-6
Index-No.	:	033-001-00-X

Component	Classification	Concentration
arsenic		
	Acute Tox. 3; Skin Irrit. 2; Eye Dam. 1; Carc. 1A; Aquatic Acute 1; Aquatic Chronic 1; H301, H331, H315, H318, H350, H400, H410 M-Factor - Aquatic Acute: 10 M-Factor - Aquatic Chronic: 1	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed
If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

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4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Nature of decomposition products not known.
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class
Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
arsenic	7440-38-2	TWA	0.01 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Lung cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed human carcinogen		
		C	0.0020 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A 15 minute ceiling value		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
arsenic	7440-38-2	inorganic arsenic plus methylated metabolites	15µg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)

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	Remarks	End of shift			
		inorganic arsenic plus methylated metabolites	15µg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of the workweek (After four or five consecutive working days with exposure)			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter type P3
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

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Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Color: gray
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 817 °C (1503 °F) - lit.
f)	Initial boiling point and boiling range	613 °C 1135 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	5.727 g/mL at 25 °C (77 °F) - lit.
	Relative density	5.622.4 °C - OECD Test Guideline 109
n)	Water solubility	ca.0.0106 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - slightly soluble
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition temperature	> 430 °C (> 806 °F)does not ignite
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Exothermic reaction with:
Aluminum
Bromine
bromates
chlorates
iodates
Nitric acid
Risk of ignition or formation of inflammable gases or vapours with:
nitrates
Alkali metals
Zinc
Reducing agents
Strong oxidizing agents
Risk of explosion with:
potassium permanganate
azides
halogen-halogen compounds
Peroxides
nitrogen trichloride

10.4 Conditions to avoid
Heat. Exposure to air may affect product quality.
no information available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Mouse - 145 mg/kg
Remarks: Behavioral:Ataxia.
Diarrhea
(RTECS)
Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

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Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
Skin - In vitro study
Result: Irritating to skin. - 15 min
Remarks: (ECHA)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Causes serious eye damage. - 24 h
(OECD Test Guideline 405)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
(OECD Test Guideline 406)

Germ cell mutagenicity
Test Type: Ames test
Test system: Escherichia coli
Result: negative
Remarks: (ECHA)

Carcinogenicity
May cause cancer. Positive evidence from human epidemiological studies.

IARC:	1 - Group 1: Carcinogenic to humans (arsenic)
NTP:	Known - Known to be human carcinogen (arsenic)
OSHA:	OSHA specifically regulated carcinogen (arsenic)

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: CG0525000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

The following applies to arsenic and its compounds in general: they take effect as capillary and enzyme toxins. Symptoms of arsenic poisoning: acute: after inhalation, mucosal irritations with coughing, dyspnoea, pain in the thorax. Perforations within the respiratory tract are possible. After oral uptake, gastrointestinal disorders with vomiting, diarrhoea, and spasms, CNS disorders with headache, confusion, shaking fits and disturbed consciousness, cardiovascular disorders all the way to circulatory collapse. Chronic: exanthema, dermal lesions in the form of hyperkeratosis and hypermelanosis, loss of hair,

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conjunctivitis and polyneuropathy, impaired hepatic function, and renal damage. After accumulation in the liver, kidneys, and skin, arsenic is eliminated from the organism only slowly. Experience has shown arsenic compounds to be carcinogenic in man.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	static test LC50 - Oreochromis mossambicus (Mozambique tilapia) - 28.68 mg/l - 96 h Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Bosmina longirostris (water flea) - 0.85 mg/l - 48 h Remarks: (ECHA)
Toxicity to algae	static test NOEC - Macrocystis pyrifera (brown algae) - 0.04 mg/l - 42 h Remarks: (ECHA)
Toxicity to bacteria	static test EC50 - activated sludge - 10.6 mg/l - 10 Days Remarks: (ECHA)
Toxicity to fish(Chronic toxicity)	flow-through test NOEC - Pimephales promelas (fathead minnow) - 2.13 mg/l - 35 d Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	flow-through test NOEC - Shrimp - 0.631 mg/l - 51 d Remarks: (ECHA)

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

UN number: 1558 Class: 6.1 Packing group: II
Proper shipping name: Arsenic
Reportable Quantity (RQ): 1 lbs
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG

UN number: 1558 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: ARSENIC
Marine pollutant : yes

IATA

UN number: 1558 Class: 6.1 Packing group: II
Proper shipping name: Arsenic

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
arsenic	7440-38-2	1	1
arsenic	7440-38-2	1	1 (D004)

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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

arsenic	7440-38-2	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

arsenic	7440-38-2

Pennsylvania Right To Know

arsenic	7440-38-2

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

arsenic	7440-38-2

Washington Chemicals of High Concern

arsenic	7440-38-2

California Prop. 65

WARNING: This product can expose you to chemicals including arsenic, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact

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Version: 6.10 Revision Date: 09/06/2024 Print Date: 09/07/2024

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SAFETY DATA SHEET

Version 4.5
Revision Date 03/02/2015
Print Date 05/24/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Barium

Product Number : 237094
Brand : Aldrich

CAS-No. : 7440-39-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 2), H261
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H261 In contact with water releases flammable gases.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)
P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 + P232 Handle under inert gas. Protect from moisture.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Ba
Molecular weight	:	137.33 g/mol
CAS-No.	:	7440-39-3
EC-No.	:	231-149-1

Hazardous components

Component	Classification	Concentration
Barium		
	Water-react. 2; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H261, H315, H319, H335	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
Barium oxide

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Store under inert gas.
Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Barium	7440-39-3	TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye, skin, & Gastrointestinal irritation Muscular stimulation Not classifiable as a human carcinogen		

		TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Eye irritation Muscular stimulation Skin irritation Gastrointestinal irritation Not classifiable as a human carcinogen		
		TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: Rods

		Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 725 °C (1,337 °F) - lit.
f)	Initial boiling point and boiling range	1,640 °C (2,984 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	3.6 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
Oxidizing agents, Water, acids, Oxygen, Chlorinated solvents, Carbon dioxide (CO2), Halogens, Halogenated hydrocarbon, Alcohols, Sulphur compounds, Hydrogen sulfide gas

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CQ8370000

Stomach/intestinal disorders, Nausea, Vomiting, Drowsiness, Dizziness, Gastrointestinal disturbance, Weakness, Tremors, Seizures.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality NOEC - Cyprinodon variegatus (sheepshead minnow) - 500 mg/l - 96 h
	LC50 - Cyprinodon variegatus (sheepshead minnow) - > 500 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1400 Class: 4.3 Packing group: II
Proper shipping name: Barium
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1400 Class: 4.3 Packing group: II EMS-No: F-G, S-O
Proper shipping name: BARIUM

IATA
UN number: 1400 Class: 4.3 Packing group: II
Proper shipping name: Barium

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Barium	7440-39-3	2007-07-01

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Barium	7440-39-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Barium	7440-39-3	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date

Barium	7440-39-3	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
H261	In contact with water releases flammable gases.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure
Water-react.	Substances and mixtures, which in contact with water, emit flammable gases

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	1

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	1
Special hazard.I:	W

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.5 Revision Date: 03/02/2015 Print Date: 05/24/2016

SAFETY DATA SHEET

Benzene

Section 1. Identification

GHS product identifier : Benzene

Chemical name : benzene

Other means of identification : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol

Product use : Synthetic/Analytical chemistry.

Synonym : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol

SDS # : 001062

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
GERM CELL MUTAGENICITY - Category 1B
CARCINOGENICITY - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bone marrow) - Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.
May form explosive mixtures with air.
Causes serious eye irritation.
Causes skin irritation.
May cause genetic defects.
May cause cancer.
Causes damage to organs through prolonged or repeated exposure. (bone marrow)

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

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Section 2. Hazards identification

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : benzene

Other means of identification : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol

CAS number/other identifiers

CAS number : 71-43-2

Product code : 001062

Ingredient name	%	CAS number
benzene	100	71-43-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Section 4. First aid measures

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
benzene	**ACGIH TLV (United States, 3/2012).** **Absorbed through skin.** STEL: 8 mg/m³ 15 minutes. STEL: 2.5 ppm 15 minutes. TWA: 1.6 mg/m³ 8 hours. TWA: 0.5 ppm 8 hours. **NIOSH REL (United States, 1/2013).** STEL: 1 ppm 15 minutes. TWA: 0.1 ppm 10 hours. **OSHA PEL (United States, 6/2010).** STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours. **OSHA PEL Z2 (United States, 11/2006).** AMP: 50 ppm 10 minutes. CEIL: 25 ppm TWA: 10 ppm 8 hours.

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Section 8. Exposure controls/personal protection

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Watery liquid.]

Color : Colorless. Yellowish.

Molecular weight : 78.12 g/mole

Molecular formula : C6-H6

Boiling/condensation point : 80.09°C (176.2°F)

Melting/freezing point : 5.49°C (41.9°F)

Critical temperature : 288.95°C (552.1°F)

Odor : Characteristic.

Odor threshold : Not available.

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Section 9. Physical and chemical properties

pH	:	Not available.
Flash point	:	Closed cup: -11°C (12.2°F)
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Evaporation rate	:	3.5 (butyl acetate = 1)
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Lower: 1.2% Upper: 7.8%
Vapor pressure	:	10 kPa (75.006094245 mm Hg) [room temperature]
Vapor density	:	2.7 (Air = 1)
Specific Volume (ft^3/lb)	:	1.1403
Gas Density (lb/ft^3)	:	0.877 (20°C / 68 to °F)
Relative density	:	0.88
Solubility	:	Not available.
Solubility in water	:	1.88 g/l
Partition coefficient: n-octanol/water	:	2.13
Auto-ignition temperature	:	498°C (928.4°F)
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic (room temperature): 0.604 mPa·s (0.604 cP)

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatibility with various substances	:	Highly reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	:	Under normal conditions of storage and use, hazardous polymerization will not occur.

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
benzene	LC50 Inhalation Gas. LD50 Oral	Rat Rat	10000 ppm 930 mg/kg	7 hours -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
benzene	Eyes - Moderate irritant Eyes - Severe irritant Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant	Rabbit Rabbit Rat Rabbit Rabbit	- - - - -	88 milligrams 24 hours 2 milligrams 8 hours 60 microliters 24 hours 15 milligrams 24 hours 20 milligrams	- - - - -

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
benzene	+	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
benzene	Category 1	Not determined	bone marrow

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

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Section 11. Toxicological information

Skin contact : Causes skin irritation.

Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : May cause genetic defects.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	$LogP_{ow}$	BCF	Potential
benzene	2.13	11	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Benzene (I,T)	71-43-2	Listed	U019

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1114	UN1114	UN114	UN1114	UN1114
UN proper shipping name	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE
Transport hazard class(es)	3 	3 	3 	3 	3 
Packing group	II	II	II	II	II
Environment	No.	No.	No.	No.	No.
Additional information	**Reportable quantity** 10 lbs / 4.54 kg [1.3675 gal / 5.1767 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	**Explosive Limit and Limited Quantity Index** 1 **Passenger Carrying Road or Rail Index** 5	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 5 L **Cargo Aircraft Only** Quantity limitation: 60 L **Limited Quantities - Passenger Aircraft** Quantity limitation: 1 L

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Section 14. Transport information

	Limited quantity Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 5 L **Cargo aircraft** Quantity limitation: 60 L **Special provisions** IB2, T4, TP1				

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Water Act (CWA) 307: benzene

Clean Water Act (CWA) 311: benzene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

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Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
benzene	100	Yes.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	benzene	71-43-2	100
Supplier notification	benzene	71-43-2	100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : This material is listed.

New York : This material is listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)

Canada inventory : This material is listed or exempted.

International regulations

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: This material is listed or exempted.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

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Section 15. Regulatory information

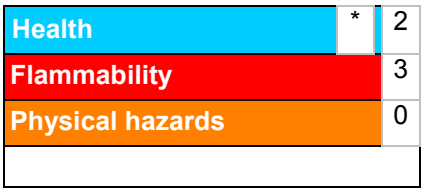
WHMIS (Canada) : Class B-2: Flammable liquid
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

CEPA Toxic substances: This material is listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class B-2: Flammable liquid
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 4/26/2015.

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Version : 0.03

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Section 16. Other information

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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SAFETY DATA SHEET

Based on Directive 2001/58/EC et seq. of the Commission of the European Communities

BENZ[a]ANTHRACENE

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Synonyms: benzo(a)anthracene

CAS No.	: 56-55-3	**BCR number**	: BCR-271
EC index No.	: 601-033-00-9	**NFPA code**	: N.D.
EINECS No.	: 200-280-6	**Molecular weight**	: 228.30
RTECS No.	: CV9275000	**Formula**	: C18H12

1.2 Use of the substance or the preparation:
Certified reference material for laboratory use only

1.3 Company/undertaking identification:
Institute for Reference Materials and Measurements
Retieseweg
B-2440 Geel
Tel. : +32 14 57 12 11
Fax : +32 14 58 42 73

1.4 Telephone number for emergency:
+32 70 245 245
Antigifcentrum
p/a Militair Hospitaal Koningin Astrid, Bruynstraat, B-1120 Brussel

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
Benzo[a]anthracene	56-55-3 200-280-6	100	T;N	45-50/53 (1)

(1) For R-phrases in full: see heading 16

3. Hazards identification

- May cause cancer
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:
- Consult a doctor/medical service if irritation persists
- Rinse immediately with water

4.2 Skin contact:
- Consult a doctor/medical service if irritation persists
- Wash with water and soap
- Remove clothing before washing

4.3 After inhalation:
- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:
- Consult a doctor/medical service if you feel unwell
- Immediately give lots of water to drink
- Never give water to an unconscious person

5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Water spray
- Alcohol foam
- Polymer foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:
- Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:
- Not easily combustible
- Upon combustion CO and CO2 are formed

5.4 Instructions:
- Take account of toxic firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:
- Heat/fire exposure: compressed air/oxygen apparatus
- Dust cloud production: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal protection/precautions: see heading 8.1/8.3/10.3

6.2 Environmental precautions:
- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Dam up the solid spill

6.3 Methods for cleaning up:
- Stop dust cloud by covering with sand/earth
- Carefully collect the spill/leftovers
- Scoop solid spill into closing containers
- Take collected spill to manufacturer/competent authority
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Observe strict hygiene
- Avoid prolonged and repeated contact with skin
- Avoid raising dust
- Do not discharge the waste into the drain
- Remove contaminated clothing immediately

7.2 Storage:
- Keep container tightly closed. Store in a cool area. Store in a dry area.
- Store in a dark area.
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

Storage temperature : N.D. **°C**
Quantity limits : N.D. **kg**
Storage life : N.D.
Materials for packaging :
- suitable : no data available
- to avoid : no data available

7.3 Specific uses:
See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

TLV-TWA	:	**mg/m^3**	-	**ppm**
TLV-STEL	:	**mg/m^3**	-	**ppm**
TLV-Ceiling	:	**mg/m^3**		**ppm**
OES-LTEL	:	**mg/m^3**		**ppm**
OES-STEL	:	**mg/m^3**		**ppm**
MAK	:	**mg/m^3**		**ppm**
TRK	:	**mg/m^3**		**ppm**
MAC-TGG 8 h	:	**mg/m^3**		
MAC-TGG 15 min.	:	**mg/m^3**		
MAC-Ceiling	:	**mg/m^3**		
VME-8 h	:	**mg/m^3**		**ppm**
VLE-15 min.	:	**mg/m^3**		**ppm**
GWBB-8 h	:	**mg/m^3**		**ppm**
GWK-15 min.	:	**mg/m^3**		**ppm**
Momentary value	:	**mg/m^3**		**ppm**
EC	:	**mg/m^3**		**ppm**
EC-STEL	:	**mg/m^3**		**ppm**

Sampling methods:

- Benz(a)Anthracene (Polynuclear aromatic hydrocarbons)	NIOSH 5506
- Benz(a)Anthracene (Polynuclear aromatic hydrocarbons)	NIOSH 5515
- Benz(a)Anthracene	OSHA CSI

8.2 Exposure controls:

8.2.1 Occupational exposure controls:
- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:
- Dust production: dust mask with filter type P3
- High dust production: compressed air/oxygen apparatus

8.3.2 hand protection:
- Gloves
  Suitable materials: No data available

- Breakthrough time: N.D.

8.3.3 eye protection:
- Safety glasses
- In case of dust production: protective goggles

8.3.4 skin protection:
- Protective clothing
- In case of dust production: head/neck protection
  Suitable materials: No data available

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	:	Crystalline solid / Scales
Odour	:	Odourless
Colour	:	Colourless to fluorescent yellow-green

9.2 Important health, safety and environmental information:

pH value	:	N.D.	
Boiling point/boiling range	:	N.A.	**°C**
Flashpoint	:	N.D.	**°C**
Explosion limits	:	N.D.	**vol%** (**°C**)
Vapour pressure (at 20°C)	:	0.00007	**hPa**
Vapour pressure (at 50°C)	:	N.D.	**hPa**
Relative density (at 20°C)	:	1.3	
Water solubility	:	0.00001	**g/100 ml**
Soluble in	:	Ether, acetone, oils/fats	
Relative vapour density	:	N.D.	
Viscosity	:	N.D.	**Pa.s**
Partition coëfficient n-octanol/water	:	5.61/5.79	
Evaporation rate			
ratio to butyl acetate	:	N.D.	
ratio to ether	:	N.D.	

9.3 Other information:

Melting point/melting range	:	160	**°C**
Auto-ignition point	:	N.D.	**°C**
Saturation concentration	:	N.D.	**g/m^3**

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:
- Stable under normal conditions

10.2 Materials to avoid:
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

10.3 Hazardous decomposition products:
- Upon combustion CO and CO2 are formed
- Reacts violently with (strong) oxidizers
- Decomposes on exposure to (strong) acids

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat	:	N.D.	**mg/kg**
LD50 dermal rat	:	N.D.	**mg/kg**
LD50 dermal rabbit	:	N.D.	**mg/kg**
LC50 inhalation rat	:	N.D.	**mg/l/4 h**
LC50 inhalation rat	:	N.D.	**ppm/4 h**

11.2 Chronic toxicity:

EC carc. cat.	:	2
EC muta. cat.	:	not listed
EC repr. cat.	:	not listed
Carcinogenicity (TLV)	:	A2
Carcinogenicity (MAC)	:	K
Carcinogenicity (VME)	:	not listed
Carcinogenicity (GWBB)	:	not listed
Carcinogenicity (MAK)	:	2
Mutagenicity (MAK)	:	not listed
Teratogenicity (MAK)	:	-
IARC classification	:	2A

11.3 Routes of exposure: ingestion, inhalation, eyes and skin
Caution! Substance is absorbed through the skin

11.4 Acute effects/symptoms:

AFTER SKIN CONTACT
- Slight irritation

11.5 Chronic effects:

- Probably human carcinogenic
- Mutagenicity: AMES test positive
- Probably human mutagenic

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
- No specific information available

SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:
- Feeling of weakness
- Photoallergy
- Skin rash/inflammation
- Cracking of the skin
- Skin cancer
- Lung tissue affection/degeneration
- Enlargement/affection of the liver
- Affection of the renal tissue

12. Ecological information

12.1 Ecotoxicity:

- LC50 (65 h) : 0.0018 mg/l (PIMEPHALES PROMELAS)
- EC50 (96 h) : 0.01 mg/l (DAPHNIA PULEX)

12.2 Mobility:

- **Volatile organic compounds (VOC):** 0%

- Photolysis in water
- Ozonation in water
- Insoluble in water

For other physicochemical properties see heading 9.

12.3 Persistence and degradability:

- **biodegradation BOD_5** : N.D. **% ThOD**
- **water** : - Not readily biodegradable in water
- **soil** : **T ½:** > 100 **days**

12.4 Bioaccumulative potential:
- **log P_{ow}** : 5.61/5.79
- **BCF** : 72 h : 350 (LEUCISCUS IDUS)
- Highly bioaccumulative

12.5 Other adverse effects:

- **WGK** : 3 (Classification based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (Council Regulation (EC) 3093/94)
- **Greenhouse effect** : no data available
- **Effect on waste water purification** : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 16 05 06 (laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals)
- Waste material code (Flanders): 001, 045, 691
- Waste code (Germany): 59302
- Hazardous waste (91/689/EEC)

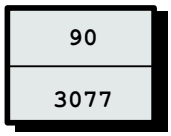
13.2 Disposal methods:

- Dissolve or mix with a combustible solvent
- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber
- Do not discharge into surface water (2000/60/EEC, Council Decision 2455/2001/EC)

13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

14. Transport information



14.1 Classification of the substance in compliance with UN Recommendations

UN number	: 3077
CLASS	: 9
SUB RISKS	: -
PACKING	: III
PROPER SHIPPING NAME	: UN 3077, Environmentally hazardous substance, solid, n.o.s. (benzo[a]anthracene)

14.2 ADR (transport by road)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.3 RID (transport by rail)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.4 ADNR (transport by inland waterways)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.5 IMDG (maritime transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
MFAG	: -
EMS	: -
MARINE POLLUTANT	: P

14.6 ICAO (air transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:
PACKING INSTRUCTIONS CARGO AIRCRAFT	:

14.7 Special precautions in connection with transport : none

14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:
each package shall display a diamond-shaped figure with the following inscription:
- 'UN 3077'
or, in the case of different goods with different identification numbers within a single package:
- the letters 'LQ'

15. Regulatory information

Enumerated in substance list Annex I of directive 67/548/EEC et sequens



Toxic



Dangerous for the environment

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S53 : Avoid exposure - obtain special instructions before use
S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible)
S60 : This material and/or its container must be disposed of as hazardous waste
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

Full text of any R-phrases referred to under heading 2:

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Exposure limits:
TLV : Threshold Limit Value - ACGIH USA 2000
OES : Occupational Exposure Standards - United Kingdom 1999
MEL : Maximum Exposure Limits - United Kingdom 1999
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - The Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 1998
GWK : Grenswaarde kortstondige blootstelling - Belgium 1998
EC : Indicative occupational exposure limit values - directive 2000/39/EC

Chronic toxicity:
K : List of the carcinogenic substances and processes - The Netherlands 2002

Safety Data Sheet

Revision Date: 03/23/15
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**31272, 31272-5XX, & 31372 / Benzo (b) Fluoranthene Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	1-800-424-9300 (CHEMTREC) +1 703-741-5970 (Outside the US)
Email:	sds@restek.com
Revision Number:	8
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification: Flammable Liquid Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

GHS Signal Word: Danger

GHS Hazard: Highly flammable liquid and vapour.
May cause drowsiness or dizziness.

GHS Precautions:

Safety Precautions: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
Acetone	67-64-1	200-662-2	99.900000
benzo (b) fluoranthene	205-99-2	205-911-9	0.100000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
Acetone	67-64-1	2500 ppm IDLH (10% LEL)	750 ppm STEL 750 ppm STEL;	500 ppm TWA 500 ppm TWA; 1188 mg/m3	1000 ppm TWA; 2400 mg/m3 TWA

benzo (b) fluoranthene	205-99-2	ND	1782 mg/m3 STEL No TLV	TWA	No data available.

Personal Protection:

Engineering Measures:	Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.
Respiratory Protection:	No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work
Medical Conditions Aggravated By Exposure:	Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	Depends upon product selection
Odor:	Strong
Physical State:	No data available.
pH:	No data available
Vapor Density:	2.0 (air = 1)
Melting Point:	-95.4 °C Melting Point
Flash Point:	39
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	No data available.
Lower Flammable/Explosive Limit, % in air:	No data available.
Autoignition Temperature:	465 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	0.7845 g/cm3 at 25 °C
Evaporation Rate:	No data available.
Odor Threshold:	ND
Solubility:	Complete; 100%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	0.00
Molecular Weight:	58.08

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents Strong acids
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Respiratory Tract, Skin
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Can cause minor skin irritation, defatting, and dermatitis.
Eye Contact:	Can cause minor irritation, tearing and reddening.
Ingestion Irritation:	May be harmful if swallowed.
Ingestion Toxicity:	Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	Contains a probable or known human carcinogen.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Upon prolonged or repeated contact, can cause minor

skin irritation, defatting, and dermatitis.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Acetone	67-64-1	Inhalation LC50 Rat 50100 mg/m3 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.	
Benzo(b)fluoranthene	205-99-2	Present

ACGIH:

Chemical Name	CAS No.	
Acetone	67-64-1	A4 - Not Classifiable as a Human Carcinogen
Benzo[b]fluoranthene	205-99-2	A2 - Suspected Human Carcinogen

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1
No data.		Group 2A
Benzo(b)fluoranthene	205-99-2	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Ecological Toxicity Data:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:	Acetone
UN Number:	UN1090
Hazard Class:	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Acetone
UN Number:	UN1090
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
Acetone	67-64-1	X	-	-	X
benzo (b) fluoranthene	205-99-2	X	X	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Benzo[b]fluoranthene	205-99-2	Prop 65 Cancer

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
Acetone	67-64-1	X	X	X	X
benzo (b) fluoranthene	205-99-2	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 05/16/14

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Benzo[ghi]perylene**

Cat No. : **AC105550000; AC105550050; AC105550250; AC105551000**

Synonyms 1,12-Benzoperylene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Benzo(ghi)perylene	191-24-2	> 98

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	276 - 280 °C / 528.8 - 536 °F
Boiling Point/Range	No information available > @ 760 mmHg
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C22 H12
Molecular Weight	276.33

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable.
Conditions to Avoid	Excess heat. Exposure to light. Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO_2)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product
Component Information	
Toxicologically Synergistic	No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzo(ghi)perylene	191-24-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility .

Component	log Pow
Benzo(ghi)perylene	7.23

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL

Benzo(ghi)perylene	-	-	-	205-883-8	-		-	-	-	-	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Benzo(ghi)perylene	191-24-2	> 98	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Benzo(ghi)perylene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Benzo(ghi)perylene	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzo(ghi)perylene	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class Non-controlled

16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

Institute for Reference Materials and Measurements

SAFETY DATA SHEET

Based on Regulation (EC) No. 1907/2006 (REACH) Article 31 and Annex II

BCR-048R: benzo[k]fluoranthene

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name: BCR-048R: benzo[k]fluoranthene

CAS number	207-08-9
EC index number	601-036-00-5
EINECS number	205-916-6
RTECS number	DF6350000
Molecular mass	252.32 g/mol
Formula	C20H12

1.2 Use of the substance/preparation:

Certified reference material for laboratory use only

1.3 Company/undertaking identification:

Institute for Reference Materials and Measurements
Retieseweg
B-2440 Geel
Tel: +32 14 57 12 11
Fax: +32 14 59 04 06
JRC-IRMM-RM-Sales@ec.europa.eu

1.4 Emergency telephone:

Poison Centre: +32 70 245 245

2. Hazards identification

NFPA: 1-1-2(*)

DSD/DPD

May cause cancer

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Other hazards

Its dust is explosive with air

Dust cloud can be ignited by a spark

Slightly irritant to skin

Slightly irritant to eyes

Caution! Substance is absorbed through the skin

No certainty about human mutagenic properties

Highly bioaccumulative

Not readily biodegradable in water

CLP

Carc. 1B	May cause cancer. (H350)
Aquatic Acute 1	Very toxic to aquatic life. (H400)
Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects. (H410)

Other hazards

Its dust is explosive with air

Dust cloud can be ignited by a spark

Slightly irritant to skin

Slightly irritant to eyes

Caution! Substance is absorbed through the skin

No certainty about human mutagenic properties

Highly bioaccumulative

Not readily biodegradable in water

3. Composition/information on ingredients

Name	CAS No EINECS/ELINCS	Conc.	Classification according to DSD/DPD	Classification according to CLP	Note
benzo[k]fluoranthene	207-08-9 205-916-6		Carc. Cat. 2; R45 N; R50-53	Carc. 1B; H350 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	

4. First aid measures

4.1 After inhalation:

Remove the victim into fresh air

Respiratory problems: consult a doctor/medical service

4.2 Skin contact:

Rinse with water

Do not apply (chemical) neutralizing agents

Take victim to a doctor if irritation persists

4.3 Eye contact:

Rinse with water

Do not apply neutralizing agents

Take victim to an ophthalmologist if irritation persists

4.4 After ingestion:

Rinse mouth with water

Immediately after ingestion: give lots of water to drink

Do not induce vomiting

Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

5.1 Suitable extinguishing media:

Water spray

Polyvalent foam

ABC powder

Carbon dioxide

5.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known

5.3 Special exposure hazards:

Heating increases the fire hazard

Dust cloud can be ignited by a spark

Upon combustion CO and CO2 are formed

5.4 Instructions:

Take account of toxic fire-fighting water

Use water moderately and if possible collect or contain it

5.5 Special protective equipment for fire-fighters:

Gloves

Protective clothing

Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal precautions:

See heading 8.2

6.2 Environmental precautions:

Dam up the solid spill

Prevent soil and water pollution

Prevent spreading in sewers

See heading 13

6.3 Methods for cleaning up:

Scoop solid spill into closing containers
Carefully collect the spill/leftovers
Clean contaminated surfaces with an excess of water
Take collected spill to manufacturer/competent authority
Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

Avoid raising dust
Warning! Avoid exposure
Keep away from naked flames/heat
Obtain special instructions before use
Observe strict hygiene
Keep container tightly closed
Do not discharge the waste into the drain

7.2 Storage:

Safe storage requirements:

Store in a cool area
Store in a dry area
Keep container in a well-ventilated place
Keep locked up
Unauthorized persons are not admitted
Meet the legal requirements

Keep away from:

oxidizing agents
(strong) acids

7.3 Specific use(s):

See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods:

Product name	Test	Number	Sampling method	Remarks
Benz(a)Anthracene	OSHA	CSI		
Benz(a)Anthracene (Polynuclear aromatic hydrocarbons)	NIOSH	5506	adsorption tubes	
Benz(a)Anthracene (Polynuclear aromatic hydrocarbons)	NIOSH	5515	adsorption tubes	

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

Measure the concentration in the air regularly
Carry operations in the open/under local exhaust/ventilation or with respiratory protection
Personal protective equipment:

a) Respiratory protection:

Dust production: dust mask with filter type P3

b) Hand protection:

Gloves

c) Eye protection:

Safety glasses
In case of dust production: protective goggles

d) Skin protection:

Protective clothing

8.2.2 Environmental exposure controls:

See headings 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

Physical form	Crystalline solid
	Needles
Colour	Light yellow

9.2 Important health, safety and environmental information:

Boiling point	480 °C
Vapour pressure (20°C)	< 0.00001 hPa
Solubility in water	< 0.00001 g/100 ml
Solubility in solvents	Soluble in ethanol
	Soluble in acetic acid
	Soluble in oils/fats
Log Pow	6.84

9.3 Other information:

Melting point	217 °C

10. Stability and reactivity

10.1 Conditions to avoid:

Possible fire hazard

heat sources

ignition sources

Stability

No data available

Reactions

Reacts violently with (strong) oxidizers

10.2 Materials to avoid:

oxidizing agents

(strong) acids

10.3 Hazardous decomposition products:

Upon combustion CO and CO2 are formed

11. Toxicological information

11.1 Acute toxicity:

No (test)data available.

11.2 Chronic toxicity:

Probably human carcinogenic

No certainty about human mutagenic properties

Not classified as toxic to reproduction (EC)

BCR-048R: benzo[k]fluoranthene

EC carc cat	2
Listed in SZW - List of carcinogenic substances	yes
IARC - classification	2B
MAK - Krebserzeugend Kategorie	2
MAK - Keimzellmutagen Kategorie	3B
MAK - Schwangerschaft Gruppe	-
CLP carc cat	category 1B

11.3 Acute effects/symptoms:

Inhalation:

No data available

Skin contact:

Slight irritation

Eye contact:

Slight irritation

Ingestion:

No data available

11.4 Chronic effects:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
No specific information available
SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:
Feeling of weakness
Cracking of the skin
Skin rash/inflammation
Photoallergy
Skin cancer
Lung tissue affection/degeneration
Enlargement/affection of the liver
Affection of the renal tissue

12. Ecological information

12.1 Ecotoxicity:

No (test)data available.

12.2 Mobility:

Volatile organic compounds (VOC)	0 %
Solubility in/reaction with water	Insoluble in water
Water physicochemical processes	Forming sediments in water
Soil physicochemical processes	Adsorbs into the soil

12.3 Persistence and degradability:

Water abiotic degradation processes	Ozonation in water
Half-life soil	65 - 1400 days

Not readily biodegradable in water

12.4 Bioaccumulative potential:

Log Pow	6.84

Highly bioaccumulative

12.5 Results of PBT assessment:

Not applicable, based on available data

12.6 Other adverse effects:

Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009)

13. Disposal considerations

13.1 Provisions relating to waste:

Waste material code (Directive 2008/98/EC, decision 2001/118/EC)
16 05 06* : laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Depending on branch of industry and production process, also other EURAL codes may be applicable
Hazardous waste according to Directive 2008/98/EC

13.2 Disposal methods:

Dissolve or mix with a combustible solvent
Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery
Remove waste in accordance with local and/or national regulations
Do not discharge into surface water (2000/60/EC, Council decision 2455/2001/EC, O.J. L331 of 15/12/2001)

13.3 Packaging/Container:

Waste material code packaging (Directive 2008/98/EC)
15 01 10* : packaging containing residues of or contaminated by dangerous substances

{13.4 Entsorgung verschmutzter Gebinde:}

14. Transport information

ADR

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name ADR	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Hazard identification number	90
Classification code	M7
Labels	9
Environmentally hazardous substance mark	yes

RID

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name RID	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Classification code	M7
Labels	9
Environmentally hazardous substance mark	yes

ADNR

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name ADNR	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Classification code	M7
Labels	9
Environmentally hazardous substance mark	yes

IMO

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name IMO	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Labels	9
Marine pollutant	P
Environmentally hazardous substance mark	yes

ICAO

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name ICAO	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Labels	9
Environmentally hazardous substance mark	yes

15. Regulatory information

15.1 EU Legislation:

DSD/DPD

Enumerated in substance list Annex I of directive 67/548/EEC et sequens





Dangerous for the environment

R-phrases

45	May cause cancer
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

53	Avoid exposure - obtain special instructions before use
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
60	This material and its container must be disposed of as hazardous waste
61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Additional recommendations

	Restricted to professional users.

CLP

Classification and labelling according to Regulation (EC) No 1272/2008 – Annex VI and after evaluation of available test data





Signal word

Dgr	Danger

H-statements

H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

P-statements

P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P273	Avoid release to the environment.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P405	Store locked up.

Supplemental information

	Restricted to professional users.

15.2 National provisions:

15.3 Specific community rules:

Enumerated in Annex XVII of Regulation (EC) No. 1907/2006: Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Legislation	Reference legislation
EG/552/2009	See column 1: 28.
EG/552/2009	See column 1: 50. g)

16. Other information

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Full text of any R-phrases referred to under headings 2 and 3:

R45	May cause cancer
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of any H-statements referred to under headings 2 and 3:

H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of any classes referred to under headings 2 and 3:

Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Carc.	Carcinogenicity

SAFETY DATA SHEET

Revision Date 25-Mar-2024 **Revision Number** 4

1. Identification

Product Name **Benzo[a]pyrene**

Cat No. : **15856**

CAS No 50-32-8
Synonyms Benzo[def]chrysene.; 3,4-Benzopyrene; 3,4-Benzpyrene

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757

Emergency Telephone Number
For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No. **US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1B

Label Elements

Signal Word
Danger

Hazard Statements
May cause an allergic skin reaction
May cause genetic defects

May cause cancer
May damage fertility. May damage the unborn child



Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Response
IF exposed or concerned: Get medical attention/advice
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Storage
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Benzo[a]pyrene	50-32-8	> 96

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects None reasonably foreseeable. . May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Oxidizing agent.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Benzo[a]pyrene		TWA: 0.2 mg/m³		

Legend

OSHA - Occupational Safety and Health Administration

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Dark yellow
Odor	aromatic
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	175 - 179 °C / 347 - 354.2 °F
Boiling Point/Range	495 °C / 923 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C20H12
Molecular Weight	252.31

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Oxidizing agent
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO_2)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information
Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization May cause sensitization by skin contact

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Benzo[a]pyrene	50-32-8	Group 1	Reasonably Anticipated	A2	X	A2

IARC (International Agency for Research on Cancer)

IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Benzo[a]pyrene	Group III Chemical	Not applicable	Not applicable

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability May persist

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Benzo[a]pyrene	6.06

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Benzo[a]pyrene - 50-32-8	U022	-

14. Transport information

DOT

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Technical Name Benzo[a]pyrene
Hazard Class 9
Packing Group III

TDG

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Hazard Class 9
Packing Group III

IATA

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Hazard Class 9
Packing Group III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzo[a]pyrene	50-32-8	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzo[a]pyrene	50-32-8	X	-	200-028-5	X	-		-	X	KE-05-0184

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Note that PBT chemicals are not eligible for the de minimis exemption. For these chemicals, supplier notification limits are provided.
> 0 % = no low concentration cut-off set, supplier notification limit applies.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Benzo[a]pyrene	50-32-8	> 96	> 0 %	RT = 100 lb

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Benzo[a]pyrene	-	-	X	X

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Benzo[a]pyrene	1 lb	-	1 lb 0.454 kg

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Benzo[a]pyrene	50-32-8	Carcinogen	0.06 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzo[a]pyrene	X	X	X	X	X

U.S. Department of Transportation
Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Benzo[a]pyrene	50-32-8	-	Use restricted. See item 72. (see link for restriction details) Use restricted. See item 30. (see link for restriction details) Use restricted. See item 28. (see link for restriction details) Use restricted. See item 50[a]. (see link for restriction details) Use restricted. See item 29. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	SVHC Candidate list - 200-028-5 - Carcinogenic (article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); PBT (Article 57d); vPvB (Article 57e)

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

REACH links
https://echa.europa.eu/authorisation-list
https://echa.europa.eu/substances-restricted-under-reach
https://echa.europa.eu/candidate-list-table

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzo[a]pyrene	50-32-8	Not applicable	Annex III - Substance subject to release reduction	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?
See table for values

PFAS Legend
Listed = Meets the PFAS definition of the named authority

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

		for Major Accident Notification	for Safety Report Requirements		
Benzo[a]pyrene	50-32-8	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By
Health, Safety and Environmental Department
Email: chem.techinfo@thermofisher.com
www.thermofisher.com

Revision Date 25-Mar-2024
Print Date 25-Mar-2024
Revision Summary New emergency telephone response service provider.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 8.3
Revision Date 09/07/2024
Print Date 12/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Benzo[ghi]fluoranthene

Product Number : BCR139
Brand : Sigma-Aldrich
CAS-No. : 203-12-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	C18H10
Molecular weight	:	226.27 g/mol
CAS-No.	:	203-12-3

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first-aid measures

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

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5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry.
Storage stability Recommended storage temperature
2 - 8 °C
Storage class
Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Wash hands after working with substance.

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Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Respiratory protection
Recommended Filter type: Filter type P1
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point: 140 °C (284 °F)

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f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	No data available
	Relative density	No data available
n)	Water solubility	slightly soluble
o)	Partition coefficient: n-octanol/water	log Pow: 5.46 at 25 °C (77 °F) - Potential bioaccumulation
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
no information available

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10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

Further information
Not classified as dangerous in the meaning of transport regulations.

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SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 8.3 Revision Date: 09/07/2024 Print Date: 12/07/2024

The life science business of Merck KGaA, Darmstadt, Germany
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Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 01-May-2012 **Revision Date** 23-Jan-2015 **Revision Number** 2

1. Identification

Product Name **Benzoic acid**

Cat No. : **A63-500; A65-500; A68-30**

Synonyms Benzenecarboxylic acid; Benzenemethanoic acid; Phenylcarboxylic acid; Phenylformic acid; Benzeneformic acid; Carboxybenzene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Lungs.	

Label Elements

Signal Word
Danger

Hazard Statements
Causes skin irritation
Causes serious eye damage
Causes damage to organs through prolonged or repeated exposure



Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product
Response
Get medical attention/advice if you feel unwell
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
May form combustible dust concentrations in air

3. Composition / information on ingredients

Component	CAS-No	Weight %
Benzoic acid	65-85-0	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects Causes eye burns. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point 121 °C / 249.8 °F
Method - No information available

Autoignition Temperature Not applicable 570 °C / 1058 °F
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Dust can form an explosive mixture in air.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	1	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation.
Environmental Precautions See Section 12 for additional ecological information.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and storage

Handling Avoid contact with skin and eyes. Avoid ingestion and inhalation. Do not breathe dust.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Off-white
Odor	aromatic
Odor Threshold	No information available
pH	2.5-3.5 2.9 g/l water
Melting Point/Range	121 - 123 °C / 249.8 - 253.4 °F
Boiling Point/Range	249 °C / 480.2 °F @ 760 mmHg
Flash Point	121 °C / 249.8 °F

Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1.3 hPa @ 96 °C
Vapor Density	Not applicable
Relative Density	No information available
Solubility	soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable 570 °C / 1058 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C7 H6 O2
Molecular Weight	122.12

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Avoid dust formation.

Incompatible Materials Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents, Metals

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions Aqueous solution, May react with metals and lead to the formation of flammable hydrogen gas.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzoic acid	1700 mg/kg (Rat) 2565 mg/kg (Rat)	Not listed	26 mg/m³ (Rat) 1 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzoic acid	65-85-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure Lungs

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzoic acid	5 mg/L EC50 = 3 h	180 mg/L LC50 96 h	EC50 = 16.85 mg/L 30 min EC50 = 16.9 mg/L 15 min	300 mg/L EC50 = 24 h 860 mg/L EC50 = 48 h

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Benzoic acid	1.93

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Benzoic acid	X	X	-	200-618-2	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Benzoic acid	X	5000 lb	-	-

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Benzoic acid	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzoic acid	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

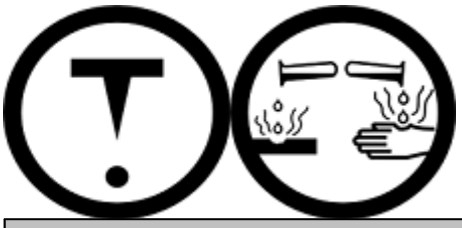
U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class E Corrosive material
D2A Very toxic materials



16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 01-May-2012
Revision Date 23-Jan-2015
Print Date 23-Jan-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 4.6
Revision Date 12/29/2015
Print Date 01/29/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Beryllium

Product Number : 378135
Brand : Aldrich

CAS-No. : 7440-41-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 2), H330
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 1), H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 Toxic if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H350 May cause cancer.

H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Be
Molecular weight	:	9.01 g/mol
CAS-No.	:	7440-41-7
EC-No.	:	231-150-7

Hazardous components

Component	Classification	Concentration
Berylium foil		
	Acute Tox. 3; Acute Tox. 2; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Carc. 1B; STOT SE 3; STOT RE 1; H301, H315, H317, H319, H330, H335, H350, H372	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Beryllium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Berylium foil	7440-41-7	TWA	2.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		CEIL	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Peak	25.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
	Remarks	Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization Chronic beryllium disease (berylliosis) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization		

		Chronic beryllium disease (berylliosis) Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		C	0.0005 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,278 °C (2,332 °F) - lit.
f)	Initial boiling point and boiling range	2,970 °C (5,378 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.85 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Alkali metals

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intravenous - Rat - 0.496 mg/kg
Remarks: Liver:Hepatitis (hepatocellular necrosis), zonal.

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Hamster
Lungs
Result: negative

Carcinogenicity

Carcinogenicity - Rat - Intratracheal
Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Lungs, Thorax, or Respiration:Bronchiogenic carcinoma.

Carcinogenicity - Rabbit - Intravenous
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Musculoskeletal:Tumors.

Possible human carcinogen

IARC:	1 - Group 1: Carcinogenic to humans (Berylium foil)
NTP:	Known to be human carcinogen (Berylium foil)
	Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Berylium foil)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: DS1750000

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium, powder
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1567 Class: 6.1 (4.1) Packing group: II EMS-No: F-G, S-G
Proper shipping name: BERYLLIUM POWDER

IATA
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium powder

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Berylium foil	7440-41-7	2008-10-10

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	4
Fire Hazard:	3
Reactivity Hazard:	3

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

SAFETY DATA SHEET

Version 5.6
Revision Date 05/23/2016
Print Date 06/22/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : β-HCH

Product Number : 33376
Brand : Sigma-Aldrich
Index-No. : 602-042-00-0

CAS-No. : 319-85-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P322	Specific measures (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_6H_6Cl_6$
Molecular weight	:	290.83 g/mol
CAS-No.	:	319-85-7
EC-No.	:	206-271-3
Index-No.	:	602-042-00-0

Hazardous components

Component	Classification	Concentration
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	> 300.0 °C (> 572.0 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-	log Pow: 3.78

	octanol/water	
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 6,000 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Reasonably anticipated to be a human carcinogen ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GV4375000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Blood -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Poecilia reticulata (guppy) - 1.6 mg/l - 96.0 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Cyprinus carpio (Carp) - 35 d - 0.05 mg/l
	Bioconcentration factor (BCF): 500

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

IATA

UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. (1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	CAS-No. 319-85-7	Revision Date 2009-02-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.6 Revision Date: 05/23/2016 Print Date: 06/22/2017

SAFETY DATA SHEET

Version 5.2
Revision Date 06/27/2014
Print Date 07/04/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Endosulfan II (beta)

Product Number : 48578
Brand : Supelco

CAS-No. : 33213-65-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 Toxic if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P321 Specific treatment (see supplemental first aid instructions on this label).
P330 Rinse mouth.
P391 Collect spillage.
P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : β-Endosulfan

Formula : C9H6Cl6O3S
Molecular Weight : 406.93 g/mol
CAS-No. : 33213-65-9

Hazardous components

Component	Classification	Concentration
β-Endosulfan		
	Acute Tox. 3; Aquatic Acute 1; Aquatic Chronic 1; H301, H410	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Sulphur oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
l)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	no data available
o)	Partition coefficient: n-octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - rat - 240.0 mg/kg

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: RB9875200

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - other fish - 0.0066 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - > 0.1 - < 1 mg/l - 48 h

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
Bioaccumulation other fish - 21 d
- 0.0001 mg/l

Bioconcentration factor (BCF): 9,908

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (β-Endosulfan)
Reportable Quantity (RQ): 1 lbs
Marine pollutant: Marine pollutant
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (β-Endosulfan)
Marine pollutant: No

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (β-Endosulfan)

15. REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
β-Endosulfan	33213-65-9	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
β-Endosulfan	33213-65-9	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
β-Endosulfan	33213-65-9	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.2 Revision Date: 06/27/2014 Print Date: 07/04/2016

SAFETY DATA SHEET

Version 5.11
Revision Date 06/18/2015
Print Date 02/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Bis(2-ethylhexyl) phthalate

Product Number : 80030
Brand : Sigma-Aldrich
Index-No. : 607-317-00-9

CAS-No. : 117-81-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Reproductive toxicity (Category 1B), H360

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H360 May damage fertility or the unborn child.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Endocrine disrupting chemical(s)

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 'Dioctyl' phthalate
Phthalic acid bis(2-ethylhexyl ester)
DEHP

Formula : $C_{24}H_{38}O_4$
Molecular weight : 390.56 g/mol
CAS-No. : 117-81-7
EC-No. : 204-211-0
Index-No. : 607-317-00-9
Registration number : 01-2119484611-38-XXXX

Hazardous components

Component	Classification	Concentration
bis(2-Ethylhexyl) phthalate Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)		
	Repr. 1B; H360	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
bis(2-Ethylhexyl) phthalate	117-81-7	TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Lower Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 480 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 230 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-50.0 °C (-58.0 °F)
f)	Initial boiling point and boiling range	386 °C (727 °F) - lit.
g)	Flash point	207.0 °C (404.6 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Lower explosion limit: 0.3 %(V)
k)	Vapour pressure	1.6 hPa (1.2 mmHg) at 93.0 °C (199.4 °F)
l)	Vapour density	No data available
m)	Relative density	0.985 g/cm3 at 20 °C (68 °F)
n)	Water solubility	insoluble

o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	390.0 °C (734.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 30,000 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - 25,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation
Maximisation Test (GPMT) - Guinea pig
Result: Does not cause skin sensitisation.
(OECD Test Guideline 406)

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (bis(2-Ethylhexyl) phthalate)

NTP: Reasonably anticipated to be a human carcinogen (bis(2-Ethylhexyl) phthalate)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
May cause congenital malformation in the fetus.
Presumed human reproductive toxicant

May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: TI0350000

Effects due to ingestion may include:, Gastrointestinal disturbance

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - > 0.67 mg/l - 96 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - > 0.32 mg/l - 96 h
	LC50 - Cyprinodon variegatus (sheepshead minnow) - > 0.17 mg/l - 96 h
	LC50 - Lepomis macrochirus (Bluegill) - > 0.20 mg/l - 96 h
	NOEC - other fish - > 0.3 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - > 0.16 mg/l - 48 h

12.2 Persistence and degradability

Biodegradability	Result: - Readily biodegradable (OECD Test Guideline 301)

12.3 Bioaccumulative potential

Bioaccumulation	Oncorhynchus mykiss (rainbow trout) - 100 d - 0.014 mg/l Bioconcentration factor (BCF): 113 Remarks: Does not bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (bis(2-Ethylhexyl) phthalate)
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
bis(2-Ethylhexyl) phthalate	117-81-7	2007-07-01

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
bis(2-Ethylhexyl) phthalate	117-81-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
bis(2-Ethylhexyl) phthalate	117-81-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
bis(2-Ethylhexyl) phthalate	117-81-7	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. bis(2-Ethylhexyl) phthalate	CAS-No. 117-81-7	Revision Date 2009-02-01
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. bis(2-Ethylhexyl) phthalate	CAS-No. 117-81-7	Revision Date 2009-02-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H360	May damage fertility or the unborn child.
Repr.	Reproductive toxicity

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	1
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	1
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.11 Revision Date: 06/18/2015 Print Date: 02/11/2016

SAFETY DATA SHEET

Revision Date 24-Dec-2021 **Revision Number** 4

1. Identification

Product Name **Cadmium**

Cat No. : **C3-500**

CAS No 7440-43-9
Synonyms No information available

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids	Category 2
Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 2
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Kidney, Blood.	
Combustible dust	Yes

Label Elements

Signal Word

Danger

Hazard Statements
Flammable solid
May form combustible dust concentrations in air
Fatal if inhaled
Harmful if swallowed
Harmful in contact with skin
May cause respiratory irritation
Suspected of causing genetic defects
May cause cancer
Suspected of damaging fertility. Suspected of damaging the unborn child
Causes damage to organs through prolonged or repeated exposure



Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
Skin
IF ON SKIN: Wash with plenty of soap and water
Wash contaminated clothing before reuse
Call a POISON CENTER or doctor/physician if you feel unwell
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Fire
Fight fire with normal precautions from a reasonable distance
Evacuate area
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
WARNING. Cancer and Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Cadmium	7440-43-9	100

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects None reasonably foreseeable. . Kidney disorders: May cause harm to the unborn child: Blood disorders

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available

Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. Fine dust dispersed in air may ignite. Dust can form an explosive mixture with air. Pyrophoric properties of solids and liquids. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products
Toxic fumes.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
4	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents. Strong acids. Sulfur oxides.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Cadmium	TWA: 0.01 mg/m³ TWA: 0.002 mg/m³	Ceiling: 0.3 mg/m³ Ceiling: 0.6 mg/m³ (Vacated) STEL: 0.3 ppm TWA: 0.1 mg/m³ TWA: 0.2 mg/m³ TWA: 5 µg/m³	IDLH: 9 mg/m³	TWA: 0.01 mg/m³ TWA: 0.002 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

9. Physical and chemical properties

Physical State Solid

Appearance	Silver
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	321 °C / 609.8 °F
Boiling Point/Range	765 °C / 1409 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	8.64 @ 25°C
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Cd
Molecular Weight	112.40

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under recommended storage conditions. Moisture sensitive. Air sensitive.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation. Exposure to air or moisture over prolonged periods.

Incompatible Materials Strong oxidizing agents, Strong acids, Sulfur oxides

Hazardous Decomposition Products Toxic fumes

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cadmium	LD50 = 2330 mg/kg (Rat)	Not listed	LC50 = 25 mg/m³ (Rat) 30 min

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Cadmium	7440-43-9	Group 1	Known	A2	X	A2

IARC (International Agency for Research on Cancer)	*IARC (International Agency for Research on Cancer)* *Group 1 - Carcinogenic to Humans* *Group 2A - Probably Carcinogenic to Humans* *Group 2B - Possibly Carcinogenic to Humans*
NTP: (National Toxicity Program)	*NTP: (National Toxicity Program)* *Known - Known Carcinogen* *Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*
ACGIH: (American Conference of Governmental Industrial Hygienists)	*A1 - Known Human Carcinogen* *A2 - Suspected Human Carcinogen* *A3 - Animal Carcinogen* *ACGIH: (American Conference of Governmental Industrial Hygienists)*

Mutagenic Effects Possible risk of irreversible effects

Reproductive Effects Possible risk of impaired fertility. May cause harm to the unborn child.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system
STOT - repeated exposure Kidney Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Kidney disorders: May cause harm to the unborn child: Blood disorders

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information



Ecotoxicity

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Cadmium	Not listed	LC50: 0.0004 - 0.003 mg/L, 96h (Pimephales promelas) LC50: = 0.016 mg/L, 96h (Oryzias latipes) LC50: = 21.1 mg/L, 96h flow-through (Lepomis macrochirus) LC50: = 0.24 mg/L, 96h static (Cyprinus carpio) LC50: = 4.26 mg/L, 96h semi-static (Cyprinus carpio) LC50: = 0.002 mg/L, 96h	Not listed	EC50: = 0.0244 mg/L, 48h Static (Daphnia magna)

		(Cyprinus carpio) LC50: = 0.006 mg/L, 96h static (Oncorhynchus mykiss) LC50: = 0.003 mg/L, 96h flow-through (Oncorhynchus mykiss)		

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No	UN2930
Proper Shipping Name	Toxic solid, flammable, organic, n.o.s.
Technical Name	Cadmium
Hazard Class	6.1
Subsidiary Hazard Class	4.1
Packing Group	I

TDG

UN-No	UN2930
Proper Shipping Name	Toxic solid, flammable, organic, n.o.s.
Hazard Class	6.1
Subsidiary Hazard Class	4.1
Packing Group	I

IATA

UN-No	UN2930
Proper Shipping Name	Toxic solid, flammable, organic, n.o.s.
Hazard Class	6.1
Subsidiary Hazard Class	4.1
Packing Group	I

IMDG/IMO

UN-No	UN2930
Proper Shipping Name	Toxic solid, flammable, organic, n.o.s.
Hazard Class	6.1
Subsidiary Hazard Class	4.1
Packing Group	I

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Cadmium	7440-43-9	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Cadmium	7440-43-9	X	-	231-152-8	X	X		X	X	KE-04397

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Cadmium	7440-43-9	100	0.1

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Cadmium	-	-	X	X

Clean Air Act

OSHA - Occupational Safety and Health Administration Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Cadmium	5 µg/m³ TWA 2.5 µg/m³ Action Level	-

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Cadmium	10 lb	-

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Cadmium	7440-43-9	Carcinogen Developmental Male Reproductive	0.05 µg/day	Developmental Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Cadmium	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Cadmium	-	Use restricted. See item 72. (see link for restriction details) Use restricted. See item 23. (see link for restriction details) Use restricted. See item 28. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	SVHC Candidate list - 231-152-8 - Carcinogenic, Article 57a;Specific target organ toxicity after repeated exposure, Article 57(f) - human health

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list
https://echa.europa.eu/substances-restricted-under-reach
https://echa.europa.eu/candidate-list-table

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Cadmium	7440-43-9	Listed	Not applicable	Not applicable	0.01% (Max. Conc.)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Cadmium	7440-43-9	Not applicable	Not applicable	Not applicable	Annex I - Y26

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Calcium metal, granular (102780)

Calcium metal, granular ; CAS No. : 7440-70-2 ; EC No. : 231-179-5 ; Index No. : 020-001-00-X ; REACH No. : 01-2119516038-45-XXXX

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

For manufacturing, processing, laboratory or repacking use only.

Uses advised against

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

DC Fine Chemicals Ltd

Street : 88 Hill Top

Postal code/City : NW11 6DY London United Kingdom

Telephone : +44 (0)20 7586 6800

Telefax : +44 (0)20 7504 1701

Information contact : info@dcfinechemicals.com

1.4 Emergency telephone number

(Only available during office hours; Monday-Friday; 08:00-18:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Water-react. 2 ; H261 - Substances or mixtures which, in contact with water, emit flammable gases : Category 2 ; In contact with water releases flammable gases.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Flame (GHS02)

Signal word

DANGER

Hazard statements

H261 In contact with water releases flammable gases.

Precautionary statements

P223	Do not allow contact with water.
P231+P232	Handle and store contents under inert gas. Protect from moisture.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P335+P334	IF ON SKIN: Brush off loose particles from skin. Immerse in cool water [or wrap in wet bandages].
P370+P378	In case of fire: Use ... to extinguish.
P402+P404	Store in a dry place. Store in a closed container.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Calcium metal, granular

Index No. : 020-001-00-X

EC No. : 231-179-5

REACH No. : 01-2119516038-45-XXXX

CAS No. : 7440-70-2

Purity : 100 % [mass]

SECTION 4: First aid measures

4.1 Description of first aid measures

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove victim out of the danger area. When in doubt or if symptoms are observed, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps.

4.3 Indication of any immediate medical attention and special treatment needed

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: Firefighting measures

The product is Highly inflammable, it can cause or considerably worsen a fire, the necessary prevention measures should be taken and risks avoided. In case of fire, the following measures are recommended:

5.1 Extinguishing media

Suitable extinguishing media

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Do not inhale explosion and combustion gases. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear a self-contained breathing apparatus and chemical protective clothing.

For emergency responders

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes.For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

For containment

Collect in closed and suitable containers for disposal.

For cleaning up

The contaminated area should be cleaned up immediately with: Water Soak up inert absorbent and dispose as waste requiring special attention. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Avoid dust formation. Clear spills immediately.

6.4 Reference to other sections

Reference to other sections Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Protective measures



When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8).

Measures to prevent aerosol and dust generation

Vapours can form explosive mixtures with air. Take precautionary measures against static discharges. Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray. Do not breathe dust.

Environmental precautions

Use appropriate container to avoid environmental contamination.

Specific requirements or handling rules

Handle and open container with care.

Advices on general occupational hygiene

Take care for general good hygiene and housekeeping.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Storage temperature :
Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product.

Hints on joint storage

Store at least 3 metres apart from: Chemicals/products that react together readily Protect against Humidity. UV-radiation/sunlight

Storage class (TRGS 510) : 4.3

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Only wear fitting, comfortable and clean protective clothing.

Personal protection equipment

Eye/face protection



Eye glasses with side protection Face protection shield EN 166

Skin protection

Hand protection



Tested protective gloves must be worn EN ISO 374

Body protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Wear anti-static footwear and clothing Wash contaminated clothing prior to re-use.



Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.



Particle filter device (EN 143).

Thermal hazards

No special measures are necessary.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : solid

Safety characteristics

Melting point/freezing point :	(1013 hPa)	850	°C	
Initial boiling point and boiling range :	(1013 hPa)	1175	°C	
Decomposition temperature :	(1013 hPa)	No data available		
Flash point :		No data available		
Auto-ignition temperature :		No data available		
Lower explosion limit :		No data available		
Upper explosion limit :		No data available		
Vapour pressure :	(50 °C)	No data available		
Density :	(20 °C)	No data available		
Solvent separation test :	(20 °C)	not applicable		
Water solubility :	(20 °C)	4	g/l	
Fat solubility :	(20 °C)	No data available.		
pH :		14		
log P O/W :		No data available		
Flow time :	(20 °C)	No data available		DIN-cup 4 mm
Viscosity :	(20 °C)	No data available		
Relative vapour density :	(20 °C)	No data available		
Evaporation rate :		No data available		
Flammable solids :	No data available.			
Flammable gases :	No data available.			
Explosive properties :	No data available.			

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not present hazards by their reactivity.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature. Safe handling: see

section 7

10.3 Possibility of hazardous reactions
The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid
Avoid any improper handling.

10.5 Incompatible materials
Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products
In case of fire may be liberated: Hazardous combustion products

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity
No information available.

Corrosion
Skin corrosion/irritation
No information available.
Serious eye damage/eye irritation
No information available.

Respiratory or skin sensitisation
No information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Carcinogenicity
No information available.
Germ cell mutagenicity
No information available.
Reproductive toxicity
No information available.

STOT-single exposure
No information available.

STOT-repeated exposure
No information available.

Aspiration hazard
No information available.

11.2 Information on other hazards
No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity
Acute (short-term) toxicity to crustacea

Parameter :	EC50 (Calcium metal, granular ; CAS No. : 7440-70-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	330 mg/l
Exposure time :	48 hour(s)

12.2 Persistence and degradability
No information available.

12.3 Bioaccumulative potential
No information available.

12.4 Mobility in soil
No information available.

12.5 Results of PBT and vPvB assessment
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Endocrine disrupting properties
No information available.

12.7 Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation. Follow the provisions of Directive 2008/98/EC regarding waste management.

Product/Packaging disposal

Waste treatment options
Recycle according to official regulations. Evidence for disposal must be provided.

Appropriate disposal / Product
Dispose of waste according to applicable legislation.

Appropriate disposal / Package
Non-contaminated packages must be recycled or disposed of. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number
UN 1401

14.2 UN proper shipping name
Land transport (ADR/RID)
CALCIUM

Sea transport (IMDG)
CALCIUM

Air transport (ICAO-TI / IATA-DGR)

CALCIUM

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) :	4.3
Classification code :	W2
Hazard identification number (Kemler No.) :	423
Tunnel restriction code :	D/E
Special provisions :	LQ 500 g · E 2
Hazard label(s) :	4.3

Sea transport (IMDG)

Class(es) :	4.3
EmS-No. :	F-G / S-O
Special provisions :	LQ 500 g · E 2 · IMDG-Code segregation group 26 · IMDG-Code segregation group 35
Hazard label(s) :	4.3

Air transport (ICAO-TI / IATA-DGR)

Class(es) :	4.3
Special provisions :	E 2
Hazard label(s) :	4.3

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

Hazard label(s) :



14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No 1272/2008 [CLP] according to Regulation (EU) No. 2020/878

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3

National regulations
Water hazard class
Class : nwg (Non-hazardous to water)

15.2 Chemical Safety Assessment
No information available.

SECTION 16: Other information

16.1 Indication of changes
None

16.2 Abbreviations and acronyms

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM:	ASTM International, originally known as American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances
EC50:	Effective Concentration 50 (Maximum Effective Concentration for 0% of Individuals)
LC50:	Lethal Concentration 50 (Lethal Concentration for 50% of Individuals)
IC50:	Inhibitor Concentration 50 (Inhibitory Concentration for 50% of Individuals)
NOEL:	No Observed Effect Level (Maximum dose without effect)
DNEL:	Derived No Effect Level (Derived no-effect dose)
DMEL:	Derived Minimum Effect Level (Derived dose of minimal effect)
CLP:	Classification, Labelling and Packaging
CSR:	Chemical Safety Report
LD50:	Lethal Dose 50 (Lethal Dose for 50% of Individuals)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
Codice IMDG:	International Maritime Dangerous Goods code
PBT:	Persistent, bioaccumulative and toxic
RID:	Regulations concerning the international rail transport of Dangerous Goods
STEL:	Short term exposure limit
TLV:	Threshold limit value
TWA:	Time Weighted Average
UE:	European Union
vPvB:	Very persistent very bioaccumulative
N.D.:	Uvailable
N.A.:	Not applicable
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes

16.3 Key literature references and sources for data
None

16.4 Relevant H- and EUH-phrases (Number and full text)
H261 In contact with water releases flammable gases.

16.5 Training advice
None

16.6 Additional information
None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

SAFETY DATA SHEET

Version 3.8
Revision Date 10/12/2015
Print Date 01/29/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Carbazole

Product Number : C5132
Brand : Sigma

CAS-No. : 86-74-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 2), H351
Chronic aquatic toxicity (Category 4), H413

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H351 Suspected of causing cancer.
H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{12}H_9N$
Molecular weight	:	167.21 g/mol
CAS-No.	:	86-74-8
EC-No.	:	201-696-0

Hazardous components

Component	Classification	Concentration
Carbazole		
	Carc. 2; Aquatic Chronic 4; H351, H413	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: beige
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 243 - 246 °C (469 - 475 °F)
f)	Initial boiling point and boiling range	355 °C (671 °F)
g)	Flash point	220.0 °C (428.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	533 hPa (400 mmHg) at 323 °C (613 °F)
l)	Vapour density	No data available
m)	Relative density	1.1 g/cm3 at 18 °C (64 °F)
n)	Water solubility	0.00091 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 3.72 at 22 °C (72 °F)
p)	Auto-ignition temperature	> 600 °C (> 1,112 °F) at 1,013 hPa (760 mmHg)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD0 Oral - Rat - > 16,000 mg/kg
(OECD Test Guideline 401)

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Carcinogenicity - Mouse - male and female - Oral
hepatocellular carcinoma

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Carbazole)
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: FE3150000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - > 0.93 mg/l - 96.0 h Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 2.30 - 4.90 mg/l - 48 h Remarks: No toxicity at the limit of solubility
Toxicity to algae	Growth inhibition NOEC - Scenedesmus acuminatus - > 0.4 mg/l - 96 h Remarks: No toxicity at the limit of solubility

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Cyprinus carpio (Carp) - 42 d - 0.05 mg/l Bioconcentration factor (BCF): 241 Cyprinus carpio (Carp) - 42 d - 0.005 mg/l Bioconcentration factor (BCF): 200

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Carbazole)
Marine pollutant:yes
IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Carbazole)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Carbazole	86-74-8	2009-07-17

New Jersey Right To Know Components

	CAS-No.	Revision Date
Carbazole	86-74-8	2009-07-17

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Carbazole	86-74-8	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H351	Suspected of causing cancer.
H413	May cause long lasting harmful effects to aquatic life.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0
Health hazard:	2
Fire Hazard:	1
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.8 Revision Date: 10/12/2015 Print Date: 01/29/2016

SAFETY DATA SHEET

Version 5.6
Revision Date 12/10/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Carbon disulfide

Product Number : 180173
Brand : Sigma-Aldrich
Index-No. : 006-003-00-3

CAS-No. : 75-15-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Acute toxicity, Inhalation (Category 4), H332
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - repeated exposure, Inhalation (Category 1), H372
Acute aquatic toxicity (Category 2), H401

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.

H401	Toxic to aquatic life.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	CS_2
Molecular weight	:	76.14 g/mol
CAS-No.	:	75-15-0
EC-No.	:	200-843-6
Index-No.	:	006-003-00-3

Hazardous components

Component	Classification	Concentration
Carbon disulphide		
	Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Repr. 2; STOT RE 1; Aquatic Acute 2; H225, H315, H319, H332, H361, H372, H401	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Sulphur oxides
Flash back possible over considerable distance., Container explosion may occur under fire conditions., Vapours may form explosive mixture with air., May explode when heated.

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Refrigerate before opening.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Carbon disulphide	75-15-0	TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Peripheral Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	1.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Peripheral Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	20.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		
		CEIL	30.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		
		Peak	100.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		
		TWA	1.000000 ppm 3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		ST	10.000000 ppm 30.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		See Table Z-2		
		TWA	20 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		
		CEIL	30 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		

		Peak	100 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Carbon disulphide	75-15-0	2-Thiothiazolidine-4-carboxylix acid (TTCA)	0.5000 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	Stench.
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -112 °C (-170 °F) - lit.
f)	Initial boiling point and boiling range	46 °C (115 °F) - lit.
g)	Flash point	-30 °C (-22 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 50 %(V) Lower explosion limit: 1.3 %(V)
k)	Vapour pressure	394.956 hPa (296.241 mmHg) at 20 °C (68 °F) 1,342.711 hPa (1,007.116 mmHg) at 55 °C (131 °F)
l)	Vapour density	2.63 - (Air = 1.0)
m)	Relative density	1.266 g/mL at 25 °C (77 °F)
n)	Water solubility	2.9 g/l at 20 °C (68 °F) - OECD Test Guideline 105
o)	Partition coefficient: n-octanol/water	log Pow: 2.7 at 25 °C (77 °F)
p)	Auto-ignition temperature	97 - 107 °C (207 - 225 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	71.9 mN/m at 19.5 °C (67.1 °F)
Relative vapour density	2.63 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Alkali metals, Zinc, Amines, Azides, Oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - female - > 2,000 mg/kg
(OECD Test Guideline 423)

LC50 Inhalation - Rat - male and female - 4 h - 10.35 mg/l
(OECD Test Guideline 403)

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
- Mouse
Result: Does not cause skin sensitisation.
(OECD Test Guideline 429)

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.

Ames test
Salmonella typhimurium
Result: negative

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Suspected human reproductive toxicant

May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: FF6650000

May cause convulsions.

Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Poecilia reticulata (guppy) - 4 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 2.1 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	Growth inhibition EC50 - Chlorella pyrenoidosa - 21 mg/l - 96 h (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability: aerobic - Exposure time 28 d
Result: > 80 % - Readily biodegradable
(OECD Test Guideline 301D)

12.3 Bioaccumulative potential

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1131 Class: 3 (6.1) Packing group: I
Proper shipping name: Carbon disulfide
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1131 Class: 3 (6.1) Packing group: I EMS-No: F-E, S-D
Proper shipping name: CARBON DISULPHIDE

IATA
UN number: 1131 Class: 3 (6.1)
Proper shipping name: Carbon disulphide
IATA Passenger: Not permitted for transport
IATA Cargo: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2007-07-01

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2007-07-01

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2007-07-01

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2008-06-17

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H401	Toxic to aquatic life.
Repr.	Reproductive toxicity

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.6 Revision Date: 12/10/2015 Print Date: 02/09/2016

SAFETY DATA SHEET

Version 5.10
Revision Date 01/06/2016
Print Date 03/03/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Carbon tetrachloride

Product Number : 319961
Brand : Sigma-Aldrich
Index-No. : 602-008-00-5

CAS-No. : 56-23-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Skin sensitisation (Sub-category 1B), H317
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure, Inhalation (Category 1), Liver, Kidney, H372
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412
Hazardous to the ozone layer (Category 1), H420

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H372 Causes damage to organs (Liver, Kidney) through prolonged or repeated exposure if inhaled.

H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.
P502	Refer to manufacturer/ supplier for information on recovery/ recycling.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Rapidly absorbed through skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Tetrachloromethane
Formula	:	CCl_4CCl_4
Molecular weight	:	153.82 g/mol
CAS-No.	:	56-23-5
EC-No.	:	200-262-8
Index-No.	:	602-008-00-5

Hazardous components

Component	Classification	Concentration
Tetrachloromethane		
	Acute Tox. 3; Skin Sens. 1B; Carc. 2; STOT RE 1; Aquatic Acute 3; Aquatic Chronic 3; Ozone 1; H301 + H311 + H331, H317, H351, H372, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Move out of dangerous area.Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Tetrachloromethane	56-23-5	TWA	5.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Liver damage Suspected human carcinogen Danger of cutaneous absorption		
		STEL	10.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Liver damage Suspected human carcinogen Danger of cutaneous absorption		
		ST	2.000000 ppm 12.600000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		TWA	10.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		CEIL	25.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		Peak	200.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		See Table Z-2		
		TWA	5 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Liver damage Suspected human carcinogen Danger of cutaneous absorption		
		STEL	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Liver damage Suspected human carcinogen Danger of cutaneous absorption		
		ST	2 ppm 12.6 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	10 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		CEIL	25 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		Peak	200 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		TWA	2 ppm 12.6 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 240 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	sweet
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -23 °C (-9 °F) - lit.
f)	Initial boiling point and boiling range	76 - 77 °C (169 - 171 °F) - lit.
g)	Flash point	does not flash
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available

	flammability or explosive limits	
k)	Vapour pressure	45 hPa (34 mmHg) at 0.3 °C (32.5 °F) 120 hPa (90 mmHg) at 19.8 °C (67.6 °F) 14,549 hPa (10,913 mmHg) at 24 °C (75 °F)
l)	Vapour density	No data available
m)	Relative density	1.594 g/cm3 at 25 °C (77 °F)
n)	Water solubility	0.8461 g/l at 20 °C (68 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 2.83 at 25 °C (77 °F)
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	26.7 mN/m at 20 °C (68 °F) 19.5 mN/m at 80 °C (176 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 2,350 mg/kg

LC50 Inhalation - Rat - 4 h - 8000 ppm

LD50 Dermal - Rabbit - > 20,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h
(Draize Test)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h
(Draize Test)

Respiratory or skin sensitisation
- Mouse
Result: The product is a skin sensitiser, sub-category 1B.
(OECD Test Guideline 429)

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Tetrachloromethane)
NTP:	Reasonably anticipated to be a human carcinogen (Tetrachloromethane)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Inhalation - Causes damage to organs through prolonged or repeated exposure. - Liver, Kidney

Aspiration hazard
No data available

Additional Information
RTECS: FG4900000

Vomiting, Diarrhoea, Abdominal pain, Nausea, Dizziness, Headache, Damage to the eyes., Liver injury may occur., Kidney injury may occur., Exposure to and/or consumption of alcohol may increase toxic effects., Contact with skin can cause:, Pain, Erythema, hyperemia

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LC50 - Danio rerio (zebra fish) - 24.3 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 35 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	Growth inhibition EC50 - Algae - 20 mg/l - 72 h (OECD Test Guideline 201)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Lepomis macrochirus (Bluegill) - 21 d - 52.3 µg/l
	Bioconcentration factor (BCF): 30

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1846 Class: 6.1 Packing group: II
Proper shipping name: Carbon tetrachloride
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1846 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: CARBON TETRACHLORIDE
Marine pollutant: yes

IATA
UN number: 1846 Class: 6.1 Packing group: II
Proper shipping name: Carbon tetrachloride

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Tetrachloromethane	56-23-5	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Tetrachloromethane	56-23-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Tetrachloromethane	56-23-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Tetrachloromethane	56-23-5	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer.	56-23-5	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H311	Toxic in contact with skin.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.10 Revision Date: 01/06/2016 Print Date: 03/03/2016

SAFETY DATA SHEET

Version 6.4
Revision Date 03/08/2024
Print Date 05/12/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Chlorobenzene-$^{13}C_6$

Product Number : 488534
Brand : Aldrich
Index-No. : 602-033-00-1
CAS-No. : 287389-52-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226
Acute toxicity, Inhalation (Category 4), H332
Short-term (acute) aquatic hazard (Category 2), H401
Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Pictogram



Signal Word Warning

Hazard Statements

H226	Flammable liquid and vapor.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist or vapors.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	$^{13}C_6H_5Cl$
Molecular weight	:	118.45 g/mol
CAS-No.	:	287389-52-0
Index-No.	:	602-033-00-1

Component	Classification	Concentration
Chlorobenzene-13C6		
	Flam. Liq. 3; Acute Tox. 4; Aquatic Acute 2; Aquatic Chronic 2; H226, H332, H401, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Hydrogen chloride gas
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air at elevated temperatures.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.
Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Chlorobenzene-13C6	287389-52-0	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		
		TWA	75 ppm 350 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	10 ppm 46 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Chlorobenzene-13C6	287389-52-0	4-Chlorocatechol	100mg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		p-Chlorophenol	20mg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
required

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter type ABEK

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The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -45 °C (-49 °F) - lit.
f)	Initial boiling point and boiling range	132 °C 270 °F - lit.
g)	Flash point	23.9 °C (75.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	1.164 g/mL at 25 °C (77 °F)1.164 g/cm3 at 25 °C (77 °F)
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5.0
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available

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s) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
Vapor/air-mixtures are explosive at intense warming.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heating.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
LC50 Inhalation - 4.0 h - 11.0 mg/l - vapor

Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
Remarks: No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Incoordination., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)
UN number: 1134 Class: 3 Packing group: III
Proper shipping name: Chlorobenzene
Reportable Quantity (RQ): 100 lbs
Reportable Quantity (RQ): 100 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1134 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: CHLOROBENZENE
Marine pollutant : yes

IATA
UN number: 1134 Class: 3 Packing group: III
Proper shipping name: Chlorobenzene

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Chlorobenzene-13C6	287389-52-0	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Chronic Health Hazard

Reportable Quantity : D021 lbs

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Chlorobenzene-13C6	287389-52-0	2007-07-01

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SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.4 Revision Date: 03/08/2024 Print Date: 05/12/2024

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SAFETY DATA SHEET

Version 6.11
Revision Date 09/06/2024
Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Chloroform

Product Number : 288306
Brand : Sigma-Aldrich
Index-No. : 602-006-00-4
CAS-No. : 67-66-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 3), H331
Skin irritation (Category 2), H315

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Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Specific target organ toxicity - repeated exposure, Oral (Category 1), Liver, Kidney, H372
Short-term (acute) aquatic hazard (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word	Danger

Hazard Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs (Liver, Kidney) through prolonged or repeated exposure if swallowed.
H402	Harmful to aquatic life.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist or vapors.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal

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plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Trichloromethane
Methylidyne trichloride

Formula : $CHCl_3$
Molecular weight : 119.38 g/mol
CAS-No. : 67-66-3
EC-No. : 200-663-8
Index-No. : 602-006-00-4

Component	Classification	Concentration
Chloroform		
	Acute Tox. 4; Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; Repr. 2; STOT SE 3; STOT RE 1; Aquatic Acute 3; H302, H331, H315, H319, H351, H361, H336, H372, H402 Concentration limits: 20 %: STOT SE 3, H336;	<= 100 %

ethanol		
	Flam. Liq. 2; Eye Irrit. 2A; H225, H319 Concentration limits: >= 50 %: Eye Irrit. 2A, H319;	>= 1 - < 5 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

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In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Hydrogen chloride gas
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

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6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Chloroform	67-66-3	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		
		ST	2 ppm 9.78 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen		

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		C	50 ppm 240 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	2 ppm 9.78 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		STEL	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Confirmed animal carcinogen with unknown relevance to humans		
		TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	1,000 ppm 1,900 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Viton®
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.7 mm
Break through time: 10 min

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Material tested:Butoject® (KCL 898)

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter type AX
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Color: colorless
b)	Odor	sweet
c)	Odor Threshold	205 ppm
d)	pH	No data available
e)	Melting point/freezing point	Melting point: -64 °C (-83 °F)
f)	Initial boiling point and boiling range	60.5 - 61.5 °C 140.9 - 142.7 °F at 1,013.25 hPa
g)	Flash point	() - Regulation (EC) No. 440/2008, Annex, A.9does not flash
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	210 hPa at 20 °C (68 °F)
l)	Vapor density	4.12 - (Air = 1.0)
m)	Density	1.49 g/cm3 at 25 °C (77 °F)
	Relative density	No data available
n)	Water solubility	8.7 g/l at 23 °C (73 °F) - OECD Test Guideline 105 - soluble
o)	Partition coefficient: n-octanol/water	No data available

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p)	Autoignition temperature	No data available
q)	Decomposition temperature	Distillable in an undecomposed state at normal pressure.
r)	Viscosity	No data available
s)	Explosive properties	Not classified as explosive.
t)	Oxidizing properties	none

9.2 Other safety information

Solubility in other solvents	organic solvent at 20 °C (68 °F) - miscible
Relative vapor density	4.12 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .
Contains the following stabilizer(s):
ethanol (>=0.5 - <=1 %)

10.3 Possibility of hazardous reactions

Risk of explosion with:
Ammonia
Amines
nitrogen oxides
bases
Oxygen
alkali amides
organic nitro compounds
strong alkalis
Fluorine
peroxi compounds
Alkaline earth metals
Alkali metals
Powdered metals
Methanol
with
alcoholates
Methanol
with
strong alkalis
Iron
in powder form
various alloys

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sensitive to shock
Methanol
with
Sodium hydroxide
magnesium
in powder form
Oxygen
with
alkali compounds
Aluminum
in powder form
Acetone
with
alkali compounds
Potassium
sensitive to shock
sodium
sensitive to shock
Violent reactions possible with:
phosphines
bis(dimethylamino)dimethyl tin
nonmetallic hydrogen compounds
Powdered metals
Light metals
Ketones
mineral acids
Strong oxidizing agents
semimetallic hydrogen compounds

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimate Oral - 912.56 mg/kg
(Calculation method)
LD50 Oral - Rat - male - 908 mg/kg
(OECD Test Guideline 401)
Acute toxicity estimate Inhalation - 4 h - 3.12 mg/l - vapor(Calculation method)

LC50 Inhalation - Rat - 6 h - 9.17 mg/l - vapor

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Acute toxicity estimate Inhalation - Expert judgment - 4 h - 3.1 mg/l - vapor

Dermal: No data available
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Irritating to skin. - 24 h
Remarks: (ECHA)
Remarks: Drying-out effect resulting in rough and chapped skin.
Skin - Rabbit
Result: slight irritation
Remarks: (IUCLID)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Irritating to eyes.
Remarks: (ECHA)
Remarks: (Regulation (EC) No 1272/2008, Annex VI)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
(Regulation (EC) No. 440/2008, Annex, B.6)

Germ cell mutagenicity
Test Type: Ames test
Test system: Escherichia coli/Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
Remarks: (ECHA)
Test Type: unscheduled DNA synthesis assay
Test system: Liver
Metabolic activation: without metabolic activation
Result: negative
Remarks: (ECHA)

Test Type: Micronucleus test
Species: Rat
Cell type: Red blood cells (erythrocytes)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Test Type: unscheduled DNA synthesis assay
Species: Rat
Cell type: Liver cells
Application Route: Oral
Method: OECD Test Guideline 486
Result: negative

Test Type: in vivo assay
Species: Mouse

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Application Route: Inhalation

Result: negative
Remarks: (ECHA)

Carcinogenicity
Suspected of causing cancer.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chloroform)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Chloroform)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
Oral - Causes damage to organs through prolonged or repeated exposure.
- Liver, Kidney

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Rat - female - Oral - NOAEL (No observed adverse effect level) - 34 mg/kg

Vomiting, Cough, irritant effects, Shortness of breath, respiratory arrest, narcosis, Dizziness, Nausea, agitation, spasms, inebriation, Headache, Stomach/intestinal disorders, ataxia (impaired locomotor coordination), cardiovascular disorders
Drying-out effect resulting in rough and chapped skin.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Crassostrea gigas - 152.5 mg/l - 48 h Remarks: (ECHA)
Toxicity to algae	static test ErC50 - Chlamydomonas reinhardtii (green algae) - 13.3 mg/l - 72 h Remarks: (ECHA)

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Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 6.3 mg/l - 21 d Remarks: (ECHA)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 1888 Class: 6.1 Packing group: III
Proper shipping name: ChloroformSOLUTION

Reportable Quantity (RQ): 10 lbs
Reportable Quantity (RQ): 10 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1888 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: CHLOROFORMSOLUTION

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IATA
UN number: 1888 Class: 6.1 Packing group: III
Proper shipping name: ChloroformSOLUTION

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Chloroform	67-66-3	10	10
Chloroform	67-66-3	10	10 (D022)

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Chloroform	67-66-3	10	10

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Chloroform	67-66-3	10000

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Chloroform 67-66-3 >= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

Chloroform 67-66-3
ethanol 64-17-5

Pennsylvania Right To Know

Chloroform 67-66-3
ethanol 64-17-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including Chloroform, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

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TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.11 Revision Date: 09/06/2024 Print Date: 09/07/2024

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SAFETY DATA SHEET

Version 6.8
Revision Date 09/07/2024
Print Date 09/08/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Chromium

Product Number : 266299
Brand : Aldrich
CAS-No. : 7440-47-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : Cr
Molecular weight : 52.00 g/mol
CAS-No. : 7440-47-3
EC-No. : 231-157-5

Component	Classification	Concentration
chromium		
		<= 100 %

SECTION 4: First aid measures

4.1 Description of first-aid measures

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Chromium oxides

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

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5.4 Further information
none

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
No special precautionary measures necessary.

6.3 Methods and materials for containment and cleaning up
Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry.

Air sensitive.

Storage class
Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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Component	CAS-No.	Value	Control parameters	Basis
chromium	7440-47-3	TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		PEL	0.5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
chromium	7440-47-3	Total chromium	0.7 µg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our

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customers. It should not be construed as offering an approval for any specific use scenario.

Respiratory protection
Recommended Filter type: Filter type P1
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
No special precautionary measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Color: light gray
b)	Odor	odorless
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 1,857 °C (3,375 °F) - lit.
f)	Initial boiling point and boiling range	2,672 °C 4,842 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	7.14 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances

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p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Strong acids, Strong oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
Remarks: No data available

Serious eye damage/eye irritation
Remarks: No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity

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No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: GB4200000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 14.3 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.07 mg/l - 48 h

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation	Oncorhynchus mykiss (rainbow trout) - 30 d - 50 µg/l(chromium)
	Bioconcentration factor (BCF): 1.03 - 1.22

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (chromium)

Reportable Quantity (RQ): 5000 lbs

Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG

Not dangerous goods

IATA

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
chromium	7440-47-3	5000	5000

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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Chronic Health Hazard

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

chromium	7440-47-3	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

chromium	7440-47-3

Pennsylvania Right To Know

chromium	7440-47-3

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

Based on Directive 2001/58/EC of the Commission of the European Communities

CHRYSENE

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Synonyms: none
CAS No. : 218-01-9
EC index No. : 601-048-00-0
EINECS No. : 205-923-4
RTECS No. : GC0700000
BCR number : BCR-269
NFPA code : N.D.
Molecular weight : 228.30
Formula : C18H12

1.2 Use of the substance or the preparation:
Certified reference material for laboratory use only

1.3 Company/undertaking identification:
Institute for Reference Materials and Measurements
Retieseweg
B-2440 Geel
Tel. : +32 14 57 12 11
Fax : +32 14 58 42 73

1.4 Telephone number for emergency:
+32 70 245 245
Antigifcentrum
p/a Militair Hospitaal Koningin Astrid, Bruynstraat, B-1120 Brussel

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
chrysene	218-01-9 205-923-4	100	T;N	45-50/53 (1)

(1) For R-phrases in full: see heading 16

3. Hazards identification

- May cause cancer
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:
- Consult a doctor/medical service if irritation persists
- Rinse immediately with water

4.2 Skin contact:
- Consult a doctor/medical service if irritation persists
- Wash with water and soap
- Wipe off dry product from skin
- Remove clothing before washing

4.3 After inhalation:
- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:
- Consult a doctor/medical service if you feel unwell
- Immediately give lots of water to drink
- Never give water to an unconscious person

- Do not induce vomiting

5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Water spray
- Alcohol foam
- Polymer foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:
- Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:
- Not easily combustible
- Upon combustion CO and CO2 are formed

5.4 Instructions:
- Take account of toxic firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:
- Heat/fire exposure: compressed air/oxygen apparatus
- Dust cloud production: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal protection/precautions: see heading 8.1/8.3/10.3

6.2 Environmental precautions:
- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Dam up the solid spill

6.3 Methods for cleaning up:
- Stop dust cloud by covering with sand/earth
- Carefully collect the spill/leftovers
- Scoop solid spill into closing containers
- Spill must not return in its original container
- Take collected spill to manufacturer/competent authority
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Observe strict hygiene
- Avoid prolonged and repeated contact with skin
- Avoid raising dust
- Do not discharge the waste into the drain
- Remove contaminated clothing immediately

7.2 Storage:
- Keep container tightly closed. Store only in a limited quantity. Store in a dry area. Store in a dark area.
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

Storage temperature	: N.D.	**°C**
Quantity limits	: N.D.	**kg**
Storage life	: N.D.	
Materials for packaging	:	

- suitable : no data available
- to avoid : no data available

7.3 Specific uses:
- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

TLV-TWA	:	not listed
TLV-STEL	:	not listed
TLV-Ceiling	:	not listed
OES-LTEL	:	not listed
OES-STEL	:	not listed
MEL-LTEL	:	not listed
MEL-STEL	:	not listed
MAK	:	not listed
TRK	:	not listed
MAC-TGG 8 h	:	not listed
MAC-TGG 15 min.	:	not listed
MAC-Ceiling	:	not listed
VME-8 h	:	not listed
VLE-15 min.	:	not listed
GWBB-8 h	:	not listed
GWK-15 min.	:	not listed
Momentary value	:	not listed
EC	:	not listed
EC-STEL	:	not listed

Sampling methods:

- Chrysene (Polynuclear aromatic Hydrocarbons)	NIOSH 5515
- Chrysene	OSHA 58
- Chrysene (Polynuclear aromatic Hydrocarbons)	NIOSH 5506

8.2 Exposure controls:

8.2.1 Occupational exposure controls:
- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:
- Dust production: dust mask with filter type P3
- High dust production: compressed air/oxygen apparatus

8.3.2 hand protection:
- Gloves
  Suitable materials: No data available

- Breakthrough time: N.D.

8.3.3 eye protection:
- Safety glasses
- In case of dust production: protective goggles

8.3.4 skin protection:
- Protective clothing
- In case of dust production: head/neck protection
  Suitable materials: No data available

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	:	Crystalline solid / Flakes
Odour	:	Odourless
Colour	:	White

9.2 Important health, safety and environmental information:

pH value	:	N.D.	
Boiling point/boiling range	:	448	**°C**
Flashpoint	:	N.D.	**°C**
Explosion limits	:	N.D.	**vol%** (**°C**)
Vapour pressure (at 20°C)	:	N.D.	**hPa**
Vapour pressure (at 50°C)	:	N.D.	**hPa**
Relative density (at 20°C)	:	1.27	
Water solubility	:	< 0.001	**g/100 ml**
Soluble in	:	N.D.	
Relative vapour density	:	N.D.	
Viscosity	:	N.D.	**Pa.s**
Partition coëfficient n-octanol/water	:	5.61/5.73	
Evaporation rate			
ratio to butyl acetate	:	N.D.	
ratio to ether	:	N.D.	

9.3 Other information:

Melting point/melting range	:	256	**°C**
Auto-ignition point	:	N.D.	**°C**
Saturation concentration	:	N.D.	**g/m^3**

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:
- Stable under normal conditions

10.2 Materials to avoid:
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

10.3 Hazardous decomposition products:
- Upon combustion CO and CO2 are formed
- Reacts violently with (strong) oxidizers
- Decomposes on exposure to (strong) acids

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat	:	N.D.	**mg/kg**
LD50 dermal rat	:	N.D.	**mg/kg**
LD50 dermal rabbit	:	N.D.	**mg/kg**
LC50 inhalation rat	:	N.D.	**mg/1/4 h**
LC50 inhalation rat	:	N.D.	**ppm/4 h**

11.2 Chronic toxicity:

EC carc. cat.	:	2
EC muta. cat.	:	3
EC repr. cat.	:	not listed
Carcinogenicity (TLV)	:	A3
Carcinogenicity (MAC)	:	K
Carcinogenicity (VME)	:	not listed
Carcinogenicity (GWBB)	:	not listed
Carcinogenicity (MAK)	:	2
Mutagenicity (MAK)	:	not listed
Teratogenicity (MAK)	:	-
IARC classification	:	3

11.3 Routes of exposure: ingestion, inhalation, eyes and skin
Caution! Substance is absorbed through the skin

11.4 Acute effects/symptoms:

AFTER SKIN CONTACT
- Slight irritation

11.5 Chronic effects:

- Probably human carcinogenic
- No certainty about human mutagenic properties

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
- No specific information available

SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:
- Feeling of weakness
- Photoallergy
- Cracking of the skin
- Skin rash/inflammation
- Skin cancer
- Lung tissue affection/degeneration
- Enlargement/affection of the liver
- Affection of the renal tissue

12. Ecological information

12.1 Ecotoxicity:

- LC50 (24 h) : 0.0007 mg/l (DAPHNIA MAGNA)
- LC50 (24 h) : >6.7 mg/l (RANA SP.)

12.2 Mobility:

- **Volatile organic compounds (VOC):** N.D.%

- Forming sediments in water
- Adsorbs into the soil
- Insoluble in water

For other physicochemical properties see heading 9.

12.3 Persistence and degradability:

- **biodegradation BOD_5** : N.D. **% ThOD**
- **water** : - Not readily biodegradable in water
- **soil** : **T ½:** > 77 **days**

12.4 Bioaccumulative potential:
- **log P_{ow}** : 5.61/5.73
- **BCF** : 4440 (LAMELLIBRANCHIATA)
- Highly bioaccumulative

12.5 Other adverse effects:

- **WGK** : 3 (Classification based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (Council Regulation (EC) 3093/94)
- **Greenhouse effect** : no data available
- **Effect on waste water purification** : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision
- 2001/118/EC, O.J. L47 of 16/2/2001): 16 05 06 (laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory)
- Waste material code (Flanders): 001, 045, 691
- Waste code (Germany): 59302
- Hazardous waste (91/689/EEC)

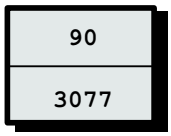
13.2 Disposal methods:

- Dissolve or mix with a combustible solvent
- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber
- Do not discharge into surface water (2000/60/EEC, Council

13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision
- 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

14. Transport information



14.1 Classification of the substance in compliance with UN Recommendations

UN number	: 3077
CLASS	: 9
SUB RISKS	: -
PACKING	: III
PROPER SHIPPING NAME	: UN 3077, Environmentally hazardous substance, solid, n.o.s. (chrysene)

14.2 ADR (transport by road)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.3 RID (transport by rail)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.4 ADNR (transport by inland waterways)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.5 IMDG (maritime transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
MFAG	: -
EMS	: -
MARINE POLLUTANT	: P

14.6 ICAO (air transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:
PACKING INSTRUCTIONS CARGO AIRCRAFT	:

14.7 Special precautions in connection with transport : none

14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:
each package shall display a diamond-shaped figure with the following inscription:
- 'UN 3077'
or, in the case of different goods with different identification numbers within a single package:
- the letters 'LQ'

15. Regulatory information

Enumerated in substance list Annex I of directive 67/548/EEC et sequens



Toxic



Dangerous for the environment

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S53 : Avoid exposure - obtain special instructions before use
S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible)
S60 : This material and/or its container must be disposed of as hazardous waste
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

Full text of any R-phrases referred to under heading 2:

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Exposure limits:
TLV : Threshold Limit Value - ACGIH USA 2000
OES : Occupational Exposure Standards - United Kingdom 1999
MEL : Maximum Exposure Limits - United Kingdom 1999
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - The Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 1998
GWK : Grenswaarde kortstondige blootstelling - Belgium 1998
EC : Indicative occupational exposure limit values - directive 2000/39/EC

Chronic toxicity:
K : List of the carcinogenic substances and processes - The Netherlands 2002

SAFETY DATA SHEET

Version 5.4
Revision Date 12/01/2015
Print Date 03/03/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : *cis*-1,2-Dichloroethylene

Product Number : D62004
Brand : Aldrich
Index-No. : 602-026-00-3

CAS-No. : 156-59-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Acute toxicity, Inhalation (Category 4), H332
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.

P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	cis-Acetylene dichloride
Formula	:	$C_2H_2Cl_2$
Molecular weight	:	96.94 g/mol
CAS-No.	:	156-59-2
EC-No.	:	205-859-7
Index-No.	:	602-026-00-3

Hazardous components

Component	Classification	Concentration
cis-Dichloroethylene		
	Flam. Liq. 2; Acute Tox. 4; Aquatic Acute 3; Aquatic Chronic 3; H225, H332, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle and store under inert gas. Air and moisture sensitive. Light sensitive.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
cis-Dichloroethylene	156-59-2	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Eye irritation		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: light yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -80 °C (-112 °F) - lit.
f)	Initial boiling point and boiling range	60 °C (140 °F) - lit.
g)	Flash point	6.0 °C (42.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.284 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available

p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LC50 Inhalation - Rat - 13700 ppm
Remarks: Behavioral:Somnolence (general depressed activity). Liver:Fatty liver degeneration.

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KV9420000

narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1150 Class: 3 Packing group: II
Proper shipping name: 1,2-Dichloroethylene

Poison Inhalation Hazard: No

IMDG
UN number: 1150 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: 1,2-DICHLOROETHYLENE

IATA
UN number: 1150 Class: 3 Packing group: II
Proper shipping name: 1,2-Dichloroethylene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
cis-Dichloroethylene	156-59-2	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
cis-Dichloroethylene	156-59-2	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
cis-Dichloroethylene	156-59-2	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H402	Harmful to aquatic life.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	1

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.4 Revision Date: 12/01/2015 Print Date: 03/03/2016

SAFETY DATA SHEET

Version 6.12
Revision Date 09/08/2024
Print Date 09/09/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Cobalt

Product Number : 266647
Brand : Aldrich
Index-No. : 027-001-00-9
CAS-No. : 7440-48-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 1), H228
Eye irritation (Category 2A), H319
Respiratory sensitization (Category 1), H334

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Skin sensitization (Category 1), H317
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 1B), H350
Reproductive toxicity (Category 1B), H360
Long-term (chronic) aquatic hazard (Category 4), H413

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: Danger

Hazard Statements

H228	Flammable solid.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H413	May cause long lasting harmful effects to aquatic life.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P261	Avoid breathing dust.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P363	Wash contaminated clothing before reuse.

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P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Co
Molecular weight	:	58.93 g/mol
CAS-No.	:	7440-48-4
EC-No.	:	231-158-0
Index-No.	:	027-001-00-9

Component	Classification	Concentration
Cobalt		
	Flam. Sol. 1; Eye Irrit. 2A; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Carc. 1B; Repr. 1B; Aquatic Chronic 4; H228, H319, H334, H317, H341, H350, H360, H413	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Cobalt/cobalt oxides
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

Air sensitive. Handle and store under inert gas.

Storage class
Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Cobalt	7440-48-4	TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	0.02 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		TWA	0.005 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Respiratory sensitization Suspected human carcinogen		

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		TWA	0.02 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Dermal Sensitization Respiratory sensitization Confirmed animal carcinogen with unknown relevance to humans		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Cobalt	7440-48-4	Cobalt	15 µg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		Cobalt		Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
Flame retardant antistatic protective clothing.

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Respiratory protection
Recommended Filter type: Filter type P3
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	2,900 °C 5,252 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 1.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	8.9 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5.0
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available

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r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Oxidizing agents, Mineral acidsAcetylene, Hydrazinium nitrate, Material readily reacts with acids generating flammable and/or explosive hydrogen gas.

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 6,171 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity).
Behavioral:Ataxia.
Diarrhea
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Causes serious eye irritation.
(OECD Test Guideline 405)

Respiratory or skin sensitization
May cause allergic respiratory and skin reactions

Germ cell mutagenicity

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Suspected of causing genetic defects.

Carcinogenicity
Presumed to have carcinogenic potential for humans

IARC: 2A - Group 2A: Probably carcinogenic to humans (Cobalt)

2A - Group 2A: Probably carcinogenic to humans (Cobalt)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
May damage fertility.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: GF8750000
Kidney injury may occur., Damage to the eyes., Lung irritation, Throat., Rash, Vomiting, Diarrhea
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Danio rerio (zebra fish) - 100.01 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0.270 mg/l - 70 h (OECD Test Guideline 201)

12.2 Persistence and degradability
The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

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12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

UN number: 3089 Class: 4.1 Packing group: II
Proper shipping name: Metal powders, flammable, n.o.s.
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG

UN number: 3089 Class: 4.1 Packing group: II EMS-No: F-G, S-G
Proper shipping name: METAL POWDER, FLAMMABLE, N.O.S.

IATA

UN number: 3089 Class: 4.1 Packing group: II
Proper shipping name: Metal powder, flammable, n.o.s.

SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

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SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Cobalt	7440-48-4	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

Cobalt	7440-48-4

Pennsylvania Right To Know

Cobalt	7440-48-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Cobalt	7440-48-4

Washington Chemicals of High Concern

Cobalt	7440-48-4

California Prop. 65

WARNING: This product can expose you to chemicals including Cobalt, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.
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The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.
Version: 6.12 Revision Date: 09/08/2024 Print Date: 09/09/2024

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SAFETY DATA SHEET

Version 6.9
Revision Date 09/07/2024
Print Date 09/08/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Copper

Product Number : 349178
Brand : Aldrich
Index-No. : 029-024-00-X
CAS-No. : 7440-50-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Cu
Molecular weight	:	63.55 g/mol
CAS-No.	:	7440-50-8
EC-No.	:	231-159-6
Index-No.	:	029-024-00-X

Component	Classification	Concentration
Copper(bulk)		
		<= 100 %

SECTION 4: First aid measures

4.1 Description of first-aid measures

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

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5.2 Special hazards arising from the substance or mixture

Copper oxides
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry.

Store under inert gas. Air sensitive.

Storage class
Storage class (TRGS 510): 13: Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Copper(bulk)	7440-50-8	TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	0.2 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	0.1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm

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Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Respiratory protection
Recommended Filter type: Filter type P2
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Foil
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 1,083.4 °C (1,982.1 °F) - lit.
f)	Initial boiling point and boiling range	2,567 °C 4,653 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	8.94 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition	No data available

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	temperature	
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Exothermic reaction with:
Ethylene oxide
Fluorine
hydrogen sulphide
halogen-halogen compounds
alkali oxides
nitrides
Salts of hydrazine
Sulfuric acid
Risk of ignition or formation of inflammable gases or vapours with:
Oxidizing agents
Chlorine
Risk of explosion with:
Acetylene
azides
ammonium compounds
iodates
bromopropine
perchlorates
bromates
picrates
chlorates
Peroxides

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

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10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: GL5325000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

Further information
Not classified as dangerous in the meaning of transport regulations.

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SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Copper(bulk) 7440-50-8

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its

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Version: 6.9 Revision Date: 09/07/2024 Print Date: 09/08/2024

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 7.5
Revision Date 04.03.2024
Print Date 16.09.2024
GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	:	Cumene
Product Number	:	C87657
Brand	:	Aldrich
Index-No.	:	601-024-00-X
REACH No.	:	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
CAS-No.	:	98-82-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

1.4 Emergency telephone

Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids, (Category 3)	H226: Flammable liquid and vapor.
Carcinogenicity, (Category 1B)	H350: May cause cancer.

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Specific target organ toxicity - single exposure, (Category 3), Respiratory system	H335: May cause respiratory irritation.
Aspiration hazard, (Category 1)	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, (Category 2)	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Word	Danger
Hazard Statements	
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H335	May cause respiratory irritation.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements	
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P273	Avoid release to the environment.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
Supplemental Hazard Statements	none

Reduced Labeling (<= 125 ml)

Pictogram



Signal Word	Danger
Hazard Statements	
H350	May cause cancer.
H304	May be fatal if swallowed and enters airways.
Precautionary Statements	
P202	Do not handle until all safety precautions have been read and understood.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.

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Supplemental Hazard Statements none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Toxicological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
May form explosive peroxides.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Isopropylbenzene

Formula : C_9H_{12}
Molecular weight : 120,19 g/mol
CAS-No. : 98-82-8
EC-No. : 202-704-5
Index-No. : 601-024-00-X

Component		Classification	Concentration
cumene			
CAS-No. EC-No. Index-No.	98-82-8 202-704-5 601-024-00-X	Flam. Liq. 3; Carc. 1B; STOT SE 3; Asp. Tox. 1; Aquatic Chronic 2; H226, H350, H335, H304, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

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In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air at elevated temperatures.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.
Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

Store under inert gas.

Storage class
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please

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contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Viton®
Minimum layer thickness: 0,7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0,4 mm
Break through time: 10 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Physical state	liquid, clear
b)	Color	colorless
c)	Odor	aromatic
d)	Melting point/freezing point	Melting point/range: -96 °C - lit.
e)	Initial boiling point and boiling range	152 - 154 °C - lit.
f)	Flammability (solid, gas)	No data available
g)	Upper/lower flammability or explosive limits	Upper explosion limit: 6,0 %(V) Lower explosion limit: 0,9 %(V)
h)	Flash point	31,0 °C - closed cup

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i)	Autoignition temperature	425,0 °C
j)	Decomposition temperature	No data available
k)	pH	Not applicable
l)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: 0,79 mPa.s at 20 °C
m)	Water solubility	ca.0,05 g/l at 25 °C - slightly soluble
n)	Partition coefficient: n-octanol/water	log Pow: 3,55 at 23 °C - Bioaccumulation is not expected.
o)	Vapor pressure	11 hPa at 20,0 °C
p)	Density	0,864 g/mL at 25 °C - lit.
	Relative density	No data available
q)	Relative vapor density	No data available
r)	Particle characteristics	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

Surface tension	27,69 mN/m at 25 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapor/air-mixtures are explosive at intense warming.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heating.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Symptoms: gastric pain, Vomiting
Symptoms: mucosal irritations, Cough, Shortness of breath, Headache, Nausea, Vomiting,
Possible damages:, damage of respiratory tract
Dermal: No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)
Remarks: Drying-out effect resulting in rough and chapped skin.

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation - 72 h
(OECD Test Guideline 405)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
(OECD Test Guideline 406)

Germ cell mutagenicity
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
Test Type: Ames test
Test system: S. typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
Test Type: unscheduled DNA synthesis assay
Test system: rat hepatocytes
Metabolic activation: without metabolic activation
Method: OECD Test Guideline 482
Result: negative

Test Type: Micronucleus test
Species: Mouse
Cell type: Red blood cells (erythrocytes)
Application Route: inhalation (gas)
Method: OECD Test Guideline 474
Result: negative

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Test Type: Micronucleus test
Species: Rat
Cell type: Bone marrow
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: Positive results were obtained in some in vivo tests.

Carcinogenicity
Presumed to have carcinogenic potential for humans

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation. - Respiratory Tract
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
Aspiration may cause pulmonary edema and pneumonitis.

11.2 Additional Information

Endocrine disrupting properties

Product:

Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

RTECS: GR8575000
narcosis, Central nervous system depression, Dermatitis, Gastrointestinal disturbance, Damage to the lungs., Liver injury may occur., Kidney injury may occur.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After uptake of large quantities:

somnolence
Dizziness
narcosis

Effect potentiated by: ethanol

Handle in accordance with good industrial hygiene and safety practice.

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Cyprinodon variegatus (sheepshead minnow) - 4,7 mg/l - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 2,14 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - 2,01 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - > 2.000 mg/l - 3 h (OECD Test Guideline 209)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 0,35 mg/l - 21 d (OECD Test Guideline 211)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 20 d Result: 70 % - Readily biodegradable. Remarks: (ECHA)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Discharge into the environment must be avoided.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

SECTION 14: Transport information

14.1 UN number

ADR/RID: 1918 IMDG: 1918 IATA: 1918

14.2 UN proper shipping name

ADR/RID: ISOPROPYLBENZENE
IMDG: ISOPROPYLBENZENE
IATA: Isopropylbenzene

14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: no

14.6 Special precautions for user

Tunnel restriction code : (D/E)

Further information : No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : cumene

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2 ENVIRONMENTAL HAZARDS

P5c FLAMMABLE LIQUIDS

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Other regulations
Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements

H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H335	May cause respiratory irritation.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.

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Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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AccuStandard, Inc.
125 Market St., New Haven, CT 06513 USA
Tel: 203-786-5290 Fax: 203-786-5287

SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 - Product Identifiers

Catalog Name: WC-CN-1X-1

Description: Cyanide Standard

1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

1.3 - Supplier Details

Company: AccuStandard, Inc.
125 Market St.
New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

1.4 - Emergency Telephone Number

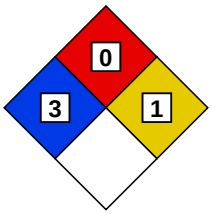
Emergency Phone #: AccuStandard, Inc.
1-203-502-7070 (USA)
+001-203-502-7070 (International)

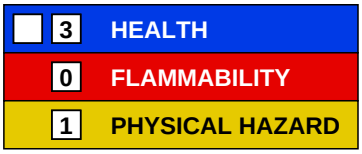
24 hours / 7 days a week

SECTION 2 - HAZARDS IDENTIFICATION

2.1 - GHS Label Elements







Signal Word: Danger

Hazard Codes:

H302 - Harmful if swallowed. (Acute toxicity, oral, category 4)

H314 - Causes skin burns. (Skin corrosion/irritation, category 1)

H318 - Causes serious eye damage. (Eye damage/irritation, category 1)

H332 - Harmful if inhaled. (Acute toxicity, inhalation, category 4)

Precautionary Codes:

P202 - This product should only by used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P280 - Protective gloves must be worn to prevent skin contact.

SECTION 2 - HAZARDS IDENTIFICATION *- continued*

2.1 - GHS Label Elements *- continued*

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P331 - Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Give victim a glass of water a little at a time. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering the lungs.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P360 - Skin contact: Immediately flush skin with plenty amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly wash (or discard) clothing and shoes before reuse.

2.2 - Other Hazards

2.2.1 - Symptom of Exposure Health/Environment

Corrosive.

May cause stomach cramps and gastro-intestinal disturbances.

May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

2.2.2 - Potential Health Effects

Causes serious eye damage. (Eye damage/irritation, category 1)

Causes skin burns. (Skin corrosion/irritation, category 1)

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

Extremely destructive to tissue of the mucous membranes and upper respiratory tract.

Harmful if inhaled. (Acute toxicity, inhalation, category 4)

Harmful if swallowed. (Acute toxicity, oral, category 4)

2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

2.2.4 - Carcinogenicity

This product is or contains a component that is not listed (ACGIH, IARC, NTP, OSHA) as a cancer causing agent.

SECTION 3 - COMPOSITION / ANALYTES DATA

Description: Cyanide Standard

			ACGIH -TLV (mg/m³)			OSHA -PEL (mg/m³)		
Analyte	CAS #	% Concentration	TWA	STEL	Skin	TWA	STEL	Skin
Potassium cyanide	151-50-8	0.025			X	5		X
Sodium hydroxide	1310-73-2	2.000	(C)2 (C)2			2		
Water	7732-18-5	97.975						

SECTION 4 - FIRST AID MEASURES

4.2 - Eye Contact

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. (P338)

4.3 - Skin Contact

Skin contact: Immediately flush skin with plenty amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly wash (or discard) clothing and shoes before reuse. (P360)

4.4 - Inhalation

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

4.5 - Ingestion

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Give victim a glass of water a little at a time. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering the lungs. (P331)

SECTION 5 - FIRE FIGHTING MEASURES

5.1 - Flammable Properties

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Reacts with most metals to form flammable hydrogen gas.

5.2 - Extinguishing Media

Do not use water.

Use dry chemical when fighting fires involving this material.

5.3 - Protection of Firefighters

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 - Spill Response

Wear a self-contained breathing apparatus and appropriate Personal protection. Prevent contact with skin or eyes. Ventilate area. Stop leak if you can do so without risk. Absorb on sand or vermiculite, take up and containerize for proper disposal. Flush spill area with water. Comply with Federal, State, and local regulations.

SECTION 7 - HANDLING AND STORAGE

Store in a tightly closed container. (P404)

Keep refrigerated.

Avoid metal containers.

Material is hygroscopic.

Avoid inhalation.

Use with adequate ventilation.

Do not get in eyes, on skin or clothing. (P262)

Avoid prolonged or repeated exposure.

This product should only by used by persons trained in the safe handling of hazardous chemicals. (P202)

SECTION 8 - EXPOSURE CONTROLS

8.1 - Engineering Controls/PPE

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

8.2 - General Hygene Considerations

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Protective gloves must be worn to prevent skin contact. (P280)

(Chloroprene, natural rubber, nitrile, or equivalent)

Wear safety glasses with side shields (or googles) and a face shield.

Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

All recommendations are advisory only and must be evaluated by an industrial hygienist and/or safety officer familiar with the specific situation of anticipated use, such as concentration and amount of the substance in the workplace. Any recommendation should not be construed as offering an approval for any specific use of the product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Odor: Practically odorless

Odor Threshold: N/A

pH: 13-14

Melting Point: -4 °C (5% soln)

Boiling Point: 102 °C (5% soln)

Flash Point: N/A

Evaporation Rate (Butyl Acetate=1): N/A

Flammability Class: N/A

Lower Flammability Level: N/A

Upper Flammability Level: N/A

Vapor Pressure: N/A

Vapor Density (Air = 1): >1 g/l

Specific Gravity: 1.05 g/cm3 (5% soln)

Solubility in Water: Soluble

Partition Coefficient: N/A

Autoignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

VOC Content: N/A

Percent Volatile: N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Oxidizers
Acids

Hazardous Decomposition: Sodium oxides

Hazardous Polymerization: Will not occur

Condition to Avoid: Prolonged exposure to air

SECTION 11 - TOXICOLOGICAL INFORMATION

Human Health Toxicity

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): N/A

LD50 (Dermal) : N/A

LC50 (Inhalation): N/A

No specific human health toxicity information is available for this product.

No other information related to the toxicological properties of this product is available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Toxicity

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): N/A

EC50 (Aquatic Invertebrate): N/A

BCF: N/A

No specific environmental toxicity information is available for this product.

No other information related to the ecological properties of this product is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

Transportation Information (DOT/IATA)

UN Number: UN1824

Class: 8

Packing Group: III

Proper Shipping Name: Sodium hydroxide solution

Poison by Inhalation: No

Marine Pollutant: No

SECTION 15 - REGULATORY INFORMATION

This product does not contain compounds subject to EU Regulation (EC) No 1907/2006 (REACH) on Annex XIV, Annex XVII, and/or Article 59.

SECTION 15 - REGULATORY INFORMATION *- continued*

All components are listed on the TSCA Inventory.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals and CLP Regulation (EC) No. 1272/2008.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

HMIS/NFPA HAZARD INDEX

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Severe

* - Additional Hazard

GHS HAZARD INDEX

Category 1 - Most Severe
Category 5 - Least Severe

**** End of Document ****

SAFETY DATA SHEET

Version 5.8
Revision Date 03/07/2015
Print Date 02/23/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Cyclohexane

Product Number : 320633
Brand : Aldrich
Index-No. : 601-017-00-1

CAS-No. : 110-82-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Aspiration hazard (Category 1), H304
Acute aquatic toxicity (Category 1), H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.

P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C_6H_{12}
Molecular weight	:	84.16 g/mol
CAS-No.	:	110-82-7
EC-No.	:	203-806-2
Index-No.	:	601-017-00-1

Hazardous components

Component	Classification	Concentration
Cyclohexane		
	Flam. Liq. 2; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 1; H225, H304, H315, H336, H400	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Cyclohexane	110-82-7	TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment		
		TWA	300.000000 ppm 1,050.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	300.000000 ppm 1,050.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 35 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 4 - 7 °C (39 - 45 °F) - lit.
f)	Initial boiling point and boiling range	80.7 °C (177.3 °F) - lit.
g)	Flash point	-17.99 °C (-0.38 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 9 %(V) Lower explosion limit: 1 %(V)
k)	Vapour pressure	225.0 hPa (168.8 mmHg) at 37.7 °C (99.9 °F) 102.7 hPa (77.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.779 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.44
p)	Auto-ignition temperature	260.0 °C (500.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 12,705 mg/kg

LC50 Inhalation - Rat - 4 h - 34,000 mg/l
(OECD Test Guideline 403)

LD50 Dermal - Rabbit - > 2,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
May be fatal if swallowed and enters airways.

Additional Information
RTECS: GU6300000

Central nervous system depression, Drowsiness, Irritability, Dizziness, Gastrointestinal disturbance, Lung irritation, chest pain, pulmonary edema

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 4.53 mg/l -

	96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 0.9 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 3.4 mg/l - 72 h (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability Result: - Readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1145 Class: 3 Packing group: II
Proper shipping name: Cyclohexane
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 1145 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: CYCLOHEXANE
Marine pollutant:yes

IATA

UN number: 1145 Class: 3 Packing group: II
Proper shipping name: Cyclohexane

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Cyclohexane	110-82-7	2007-07-01

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Cyclohexane	110-82-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Cyclohexane	110-82-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Cyclohexane	110-82-7	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.8 Revision Date: 03/07/2015 Print Date: 02/23/2016

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acc. to OSHA HCS

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*

1 Identification

· **Product identifier**

· **Trade name: p,p'-DDE**
· **Synonym**
1,1'-(2,2-dichloroethenylidene)bis[4-chloro-benzene]
4,4'-DDE
4,4'-Dichlorodiphenyldichloroethylene
p,p'-Dichlorodiphenyldichloroethylene
NSC 1153

· **Article number:** 24241
· **CAS Number:**
72-55-9
· **EC number:**
200-784-6
· **Application of the substance / the mixture**
This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Cayman Chemical Co.
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108
USA

· **Information department:** Product safety department
· **Emergency telephone number:**
During normal opening times: +1 (734) 971-3335
US/CANADA: 800-424-9300
Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· **Classification of the substance or mixture**


GHS06 Skull and crossbones

Acute Toxicity - Oral 3	H301 Toxic if swallowed.


GHS08 Health hazard

Carcinogenicity 2	H351 Suspected of causing cancer.
Specific Target Organ Toxicity - Repeated Exposure 1	H372 Causes damage to organs through prolonged or repeated exposure.

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GHS09 Environment

Aquatic Acute 1 — H400 Very toxic to aquatic life.
Aquatic Chronic 1 — H410 Very toxic to aquatic life with long lasting effects.

· **Label elements**
· **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS06 GHS08 GHS09

· **Signal word** Danger
· **Hazard statements**
H301 Toxic if swallowed.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
· **Precautionary statements**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 0

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· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Substances**
· **CAS No. Description**
72-55-9 p,p'-DDE
· **Identification number(s)**
· **EC number:** 200-784-6

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** Do not induce vomiting; immediately call for medical help.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
A solid water stream may be inefficient.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.

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· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**
· **PAC-1:** 6.5 mg/m³
· **PAC-2:** 72 mg/m³
· **PAC-3:** 170 mg/m³

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7 Handling and storage

· **Handling:**
· **Precautions for safe handling** Thorough dedusting.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:** Store in accordance with information listed on the product insert.
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:** Not required.
· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**



Tightly sealed goggles

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Solid
Color:	Not determined.
· **Odor:**	Characteristic
· **Structural Formula**	C14H8Cl4
· **Molecular Weight**	318 g/mol
· **Odor threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Product is not flammable.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Not determined.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure:**	Not applicable.
· **Density:**	Not determined.
· **Relative density**	Not determined.
· **Vapor density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
Water:	Not determined.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
SOLUBILITY	Chloroform: Slightly Soluble

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· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** strong bases, strong oxidizing agents
· **Hazardous decomposition products:** carbon oxides, hydrogen chloride

11 Toxicological information

· **RTECS Number** KV9450000
· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
Oral	LD50	880 mg/kg (rat)
	Intraperitoneal LD50	500 µg/kg (mouse)
	Intraperitoneal LD50	159 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**

· **Carcinogenic categories**
· **IARC (International Agency for Research on Cancer)** Substance is not listed.
· **NTP (National Toxicology Program)** Substance is not listed.
· **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Very toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (Assessment by list): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.

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Trade name: p,p'-DDE

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Very toxic for aquatic organisms
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN2811
· **UN proper shipping name**	
· **DOT**	Toxic solids, organic, n.o.s. (p,p'-DDE)
· **IMDG**	TOXIC SOLID, ORGANIC, N.O.S. (p,p'-DDE)
· **IATA**	Toxic solid, organic, n.o.s. (p,p'-DDE)
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	6.1 Toxic substances
· **Label**	6.1
· **IMDG, IATA**	
· **Class**	6.1 Toxic substances
· **Label**	6.1
· **Packing group**	
· **DOT, IMDG, IATA**	III
· **Environmental hazards:**	Environmentally hazardous substance, solid
· **Special precautions for user**	Warning: Toxic substances
· **Hazard identification number (Kemler code):**	60
· **EMS Number:**	F-A,S-A

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· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg
· **Hazardous substance:**	1 lbs, 0.454 kg
· **IMDG**	
· **Limited quantities (LQ)**	5 kg
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· **IATA**	
· **Remarks:**	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· **UN "Model Regulation":**	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (P,P'-DDE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
· **Sara**
· **Section 355 (extremely hazardous substances):** Substance is not listed.
· **Section 313 (Specific toxic chemical listings):** Substance is not listed.
· **TSCA (Toxic Substances Control Act):** Substance is not listed.
· **Hazardous Air Pollutants** Substance is not listed.
· **Proposition 65**
· **Chemicals known to cause cancer:** Substance is listed.
· **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
· **Chemicals known to cause reproductive toxicity for males:** Substance is listed.
· **Chemicals known to cause developmental toxicity:** Substance is listed.

· **Carcinogenic categories**
· **EPA (Environmental Protection Agency)** B2
· **TLV (Threshold Limit Value)** Substance is not listed.
· **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of

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Safety Data Sheet
acc. to OSHA HCS

Printing date 01/15/2024 Revision date 01/15/2024

Trade name: p,p'-DDE

(Contd. from page 8)

these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· **Department issuing SDS:** Environment protection department.
· **Contact:** -
· **Date of preparation / last revision** 01/15/2024
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Toxicity - Oral 3: Acute toxicity – Category 3
Carcinogenicity 2: Carcinogenicity – Category 2
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
· *** Data compared to the previous version altered.**

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/26/2019 Version Number 2 Reviewed on 03/26/2019

*

1 Identification

· **Product identifier**

· **Trade name: p,p'-DDT**

· **Part number:** FRSP-180J
· **CAS Number:**
50-29-3
· **EC number:**
200-024-3
· **Index number:**
602-045-00-7
· **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA

· **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
· **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

· **Label elements**
· **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS06



GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
DDT (common name not adopted by ISO)
· **Hazard statements**
Toxic if swallowed or in contact with skin.

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Trade name: p,p'-DDT

(Contd. of page 1)

Suspected of causing cancer.
Causes damage to organs through prolonged or repeated exposure.

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Specific treatment (see on this label).
Rinse mouth.
If on skin: Wash with plenty of water.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Get medical advice/attention if you feel unwell.
Take off immediately all contaminated clothing and wash it before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 2
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 2
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Substances**
· **CAS No. Description**
50-29-3 DDT (common name not adopted by ISO)
· **Identification number(s)**
· **EC number:** 200-024-3
· **Index number:** 602-045-00-7

(Contd. on page 3)

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(Contd. of page 2)

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** Do not induce vomiting; immediately call for medical help.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**
3 mg/m³
· **PAC-2:**
34 mg/m³
· **PAC-3:**
210 mg/m³

(Contd. on page 4)

(Contd. of page 3)

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
50-29-3 DDT (common name not adopted by ISO)	
PEL	Long-term value: 1 mg/m³ Skin
REL	Long-term value: 0.5 mg/m³ See Pocket Guide App. A
TLV	Long-term value: 1 mg/m³

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.
· **Protection of hands:**
Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

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· **Material of gloves**
For normal use: nitrile rubber, 11-13 mil thickness
For direct contact with the chemical: butyl rubber, 12-15 mil thickness
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· **Penetration time of glove material**
For normal use: nitrile rubber: 1 hour
For direct contact with the chemical: butyl rubber: >4 hours
· **Eye protection:**



Tightly sealed goggles

*
9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Solid
Color:	Not determined.
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/Melting range:	107-110 °C (224.6-230 °F)
Boiling point/Boiling range:	260 °C (500 °F)
· **Flash point:**	72-77 °C (161.6-170.6 °F)
· **Flammability (solid, gaseous):**	Product is not flammable.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Not determined.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	0.0000016 hPa (0 mm Hg)
· **Density at 20 °C (68 °F):**	0.99 g/cm³ (8.26155 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
Water at 20 °C (68 °F):	0.0000012 g/l
· **Partition coefficient (n-octanol/water):**	Not determined.

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Safety Data Sheet
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· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	100.0 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
ATE (Acute Toxicity Estimate)		
Oral	LD50	87 mg/kg (rat)
Dermal	LD50	300 mg/kg (rabbit)

50-29-3 DDT (common name not adopted by ISO)		
Oral	LD50	87 mg/kg (rat)
Dermal	LD50	2,510 mg/kg (rat)
		300 mg/kg (rabbit)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
2A

· **NTP (National Toxicology Program)**
R

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Safety Data Sheet
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· **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (Assessment by list): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

*
14 Transport information

· **UN-Number**
· **DOT, IMDG, IATA** UN2811

· **UN proper shipping name**
· **DOT** Toxic solids, organic, n.o.s. (DDT (common name not adopted by ISO))
· **IMDG, IATA** TOXIC SOLID, ORGANIC, N.O.S. (DDT (common name not adopted by ISO))

· **Transport hazard class(es)**

· **DOT, IMDG, IATA**



· **Class** 6.1 Toxic substances

(Contd. on page 8)

(Contd. of page 7)

· **Label**	6.1
· **Packing group** · **DOT, IMDG, IATA**	III
· **Environmental hazards:**	Not applicable.
· **Special precautions for user** · **Danger code (Kemler):** · **EMS Number:** · **Stowage Category**	Warning: Toxic substances 60 F-A,S-A A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg
· **Hazardous substance:**	1 lbs, 0.454 kg
· **IMDG**	
· **Limited quantities (LQ)**	5 kg
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· **UN "Model Regulation":**	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (DDT (COMMON NAME NOT ADOPTED BY ISO)), 6.1, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**
Substance is not listed.

· **TSCA (Toxic Substances Control Act):**
Substance is listed.

· **TSCA new (21st Century Act): (Substances not listed)**

50-29-3	DDT (common name not adopted by ISO)

· **Proposition 65**

· **Chemicals known to cause cancer:**
Substance is listed.

· **Chemicals known to cause reproductive toxicity for females:**
Substance is listed.

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

(Contd. of page 8)

· **Chemicals known to cause reproductive toxicity for males:**
Substance is listed.

· **Chemicals known to cause developmental toxicity:**
Substance is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**
B2

· **TLV (Threshold Limit Value established by ACGIH)**
A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
Substance is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· **Date of preparation / last revision** 03/26/2019 / 1

· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 3: Acute toxicity – Category 3
Carc. 2: Carcinogenicity – Category 2
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

· *** Data compared to the previous version altered.**

SAFETY DATA SHEET

Version 5.5
Revision Date 06/02/2016
Print Date 11/17/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : δ-BHC

Product Number : 48495
Brand : Supelco
Index-No. : 602-042-00-0

CAS-No. : 319-86-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	δ-1,2,3,4,5,6-Hexachlorocyclohexane
Formula	:	C6H6Cl6
Molecular weight	:	290.8 g/mol
CAS-No.	:	319-86-8
EC-No.	:	206-272-9
Index-No.	:	602-042-00-0

Hazardous components

Component	Classification	Concentration
1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available

n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 1,000 mg/kg

Inhalation: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

NTP: Reasonably anticipated to be a human carcinogen (1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GV4550000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - other fish - 2.83 mg/l - 96.0 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Bioaccumulation other fish - 33 d
- 0.955 mg/l

Bioconcentration factor (BCF): 326

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
Reportable Quantity (RQ): 1 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	2015-08-14

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity

Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 06/02/2016 Print Date: 11/17/2016

SAFETY DATA SHEET

Version 6.9
Revision Date 03/04/2024
Print Date 07/13/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Dibenz[*a*,*h*]anthracene

Product Number : 48574
Brand : Supelco
Index-No. : 601-041-00-2
CAS-No. : 53-70-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Carcinogenicity (Category 1B), H350
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

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For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard Statements

H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : 1,2:5,6-Dibenzanthracene

Formula : $C_{22}H_{14}$
Molecular weight : 278.35 g/mol
CAS-No. : 53-70-3
EC-No. : 200-181-8
Index-No. : 601-041-00-2

Component	Classification	Concentration
Dibenz[a,h]anthracene		
	Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H350, H400, H410 Concentration limits: >= 0.01 %: Carc. 1B, H350; M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 100	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class
Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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Component	CAS-No.	Value	Control parameters	Basis
Dibenz[a,h]anthracene	53-70-3	PEL	0.2 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Dibenz[a,h]anthracene	53-70-3	1-Hydroxypyrene	2.5 µg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		3-hydroxybenzo(a)pyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This

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recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter type P3
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 262 - 265 °C (504 - 509 °F) - lit.
f)	Initial boiling point and boiling range	524 °C 975 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	No data available
	Relative density	No data available
n)	Water solubility	No data available

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o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Violent reactions possible with:
strong oxidising agents

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

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Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
Presumed to have carcinogenic potential for humans

IARC: 2A - Group 2A: Probably carcinogenic to humans (Dibenz[a,h]anthracene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Dibenz[a,h]anthracene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: HN2625000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Lungs -

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.496 mg/l - 48 h Remarks: (ECOTOX Database)
Toxicity to algae	NOEC - Raphidocelis subcapitata (freshwater green alga) - 0.00033 mg/l - 72 h Remarks: (ECOTOX Database)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

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12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenz[a,h]anthracene)
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenz[a,h]anthracene)
Marine pollutant : yes
Marine pollutant : no

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenz[a,h]anthracene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

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SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Dibenz[a,h]anthracene	53-70-3	1993-02-16

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Dibenz[a,h]anthracene	53-70-3	1993-02-16

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dibenz[a,h]anthracene	53-70-3	1993-02-16

California Prop. 65 Components

	CAS-No.	Revision Date
, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.Dibenz[a,h]anthracene	53-70-3	2007-09-28

SECTION 16: Other information

Further information
The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.
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The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.
Version: 6.9 Revision Date: 03/04/2024 Print Date: 07/13/2024

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SAFETY DATA SHEET

Version 3.7
Revision Date 11/25/2014
Print Date 01/29/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Dibenzofuran

Product Number : 236373
Brand : Aldrich

CAS-No. : 132-64-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H302 Harmful if swallowed.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P391 Collect spillage.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : Diphenylene oxide

Formula : $C_{12}H_8O$
Molecular weight : 168.19 g/mol
CAS-No. : 132-64-9
EC-No. : 205-071-3

Hazardous components

Component	Classification	Concentration
Dibenzofuran		
	Acute Tox. 4; Aquatic Acute 2; Aquatic Chronic 2; H302, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an

industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: white, beige
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 80 - 82 °C (176 - 180 °F) - lit.
f)	Initial boiling point and boiling range	154 - 155 °C (309 - 311 °F) at 27 hPa (20 mmHg) - lit.
g)	Flash point	130.0 °C (266.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.77
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: HP4430000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	NOEC - Cyprinodon variegatus (sheepshead minnow) - 1 mg/l - 96.0 h
	LC50 - Pimephales promelas (fathead minnow) - 1.05 mg/l - 96.0 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenzofuran)
Reportable Quantity (RQ): 100 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenzofuran)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenzofuran)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date

Dibenzofuran	132-64-9	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H302	Harmful if swallowed.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	1
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	1
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.7 Revision Date: 11/25/2014 Print Date: 01/29/2016

SAFETY DATA SHEET

Halocarbon R-12 (Dichlorodifluoromethane)

Section 1. Identification

GHS product identifier : Halocarbon R-12 (Dichlorodifluoromethane)

Chemical name : dichlorodifluoromethane

Other means of identification : ASPEN R-12, Methane, dichlorodifluoro-; Refrigerant 12; Propellant 12; Halon 122; Genetron 12; Freon 12; Fluorocarbon 12; Difluorodichloromethane; DICHLORODIFLUOROMETHANE (FC 12); CFC-12

Product use : Synthetic/Analytical chemistry.

Synonym : ASPEN R-12, Methane, dichlorodifluoro-; Refrigerant 12; Propellant 12; Halon 122; Genetron 12; Freon 12; Fluorocarbon 12; Difluorodichloromethane; DICHLORODIFLUOROMETHANE (FC 12); CFC-12

SDS # : 001018

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Liquefied gas
HAZARDOUS TO THE OZONE LAYER - Category 1

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.
May cause frostbite.
May displace oxygen and cause rapid suffocation.
Harms public health and the environment by destroying ozone in the upper atmosphere.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position.

Prevention : Use and store only outdoors or in a well ventilated place.

Response : Not applicable.

Storage : Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Refer to manufacturer/supplier for information on recovery/recycling.

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Section 2. Hazards identification

Hazards not otherwise classified : Liquid can cause burns similar to frostbite.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : dichlorodifluoromethane

Other means of identification : ASPEN R-12, Methane, dichlorodifluoro-; Refrigerant 12; Propellant 12; Halon 122; Genetron 12; Freon 12; Fluorocarbon 12; Difluorodichloromethane; DICHLORODIFLUOROMETHANE (FC 12); CFC-12

CAS number/other identifiers

CAS number : 75-71-8

Product code : 001018

Ingredient name	%	CAS number
Methane, dichlorodifluoro-	100	75-71-8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. As this product rapidly becomes a gas when released, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Liquid can cause burns similar to frostbite.

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

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Section 4. First aid measures

Skin contact : Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : Ingestion of liquid can cause burns similar to frostbite.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
frostbite

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
frostbite

Ingestion : Adverse symptoms may include the following:
frostbite

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
carbonyl halides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Do not get in eyes or on skin or clothing. Avoid breathing gas. Avoid release to the environment. Refer to special instructions/safety data sheet. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

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Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Methane, dichlorodifluoro-	**ACGIH TLV (United States, 3/2012).** TWA: 4950 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. **NIOSH REL (United States, 1/2013).** TWA: 4950 mg/m³ 10 hours. TWA: 1000 ppm 10 hours. **OSHA PEL (United States, 6/2010).** TWA: 4950 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 4950 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. If contact with the liquid is possible, insulated gloves suitable for low temperatures should be worn. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Liquefied gas]

Color : Colorless.

Molecular weight : 120.91 g/mole

Molecular formula : C-Cl2-F2

Boiling/condensation point : -29.8°C (-21.6°F)

Melting/freezing point : -158°C (-252.4°F)

Critical temperature : 111.85°C (233.3°F)

Odor : Characteristic.

Odor threshold : Not available.

pH : Not available.

Flash point : [Product does not sustain combustion.]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : 84.9 (psia)

Vapor density : 4.2 (Air = 1)

Specific Volume (ft^3/lb) : 3.1746

Gas Density (lb/ft^3) : 0.315

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : 0.3 g/l

Partition coefficient: n-octanol/water : 2.16

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

SADT : Not available.

Viscosity : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 10. Stability and reactivity

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Liquid can cause burns similar to frostbite.

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact : Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.

Ingestion : Ingestion of liquid can cause burns similar to frostbite.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
frostbite

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
frostbite

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Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following:
frostbite

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Methane, dichlorodifluoro-	2.16	6.17	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

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Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Dichlorodifluoromethane; Methane, dichlorodifluoro-	75-71-8	Listed	U075

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1028	UN1028	UN1028	UN1028	UN1028
UN proper shipping name	DICHLORODIFLUOROMETHANE OR REFRIGERANT GAS R 12	DICHLORODIFLUOROMETHANE; OR REFRIGERANT GAS R 12	DICHLORODIFLUOROMETHANE OR REFRIGERANT GAS R 12	DICHLORODIFLUOROMETHANE (REFRIGERANT GAS R 12)	DICHLORODIFLUOROMETHANE
Transport hazard class(es)	2.2 	2.2 	2.2 	2.2 	2.2 
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	**Reportable quantity** 5000 lbs / 2270 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. **Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg **Special provisions** T50	**Explosive Limit and Limited Quantity Index** 0.125 **Passenger Carrying Road or Rail Index** 75	-	-	**Passenger and Cargo Aircraft** Quantity limitation: 75 kg **Cargo Aircraft Only** Quantity limitation: 150 kg

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

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Section 14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

TSCA 12(b) annual export notification: dichlorodifluoromethane

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Sudden release of pressure

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Methane, dichlorodifluoro-	100	No.	Yes.	No.	No.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	dichlorodifluoromethane	75-71-8	100
Supplier notification	dichlorodifluoromethane	75-71-8	100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : This material is listed.

New York : This material is listed.

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Section 15. Regulatory information

New Jersey : This material is listed.

Pennsylvania : This material is listed.

Canada inventory : This material is listed or exempted.

International regulations

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: This material is listed or exempted.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

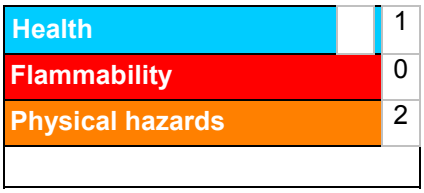
Canada

WHMIS (Canada) : Class A: Compressed gas.
CEPA Toxic substances: This material is listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Section 16. Other information

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 5/21/2015.

Date of issue/Date of revision : 5/21/2015.

Date of previous issue : 5/21/2015.

Version : 2

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Other special considerations : WARNING: Contains (Dichlorodifluoromethane), a substance which harms the public health and environment by destroying ozone in the upper atmosphere.

Notice to reader

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Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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SAFETY DATA SHEET

Version 5.5
Revision Date 02/28/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Dieldrin

Product Number : 291218
Brand : Aldrich
Index-No. : 602-049-00-9

CAS-No. : 60-57-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 2), H300
Acute toxicity, Dermal (Category 3), H311
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure, Oral (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H300 Fatal if swallowed.
H311 Toxic in contact with skin.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P281	Use personal protective equipment as required.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 1,2,3,4,10,10-Hexachloro-1,4,4a,5,6,7,8,8a-octahydro-6,7-epoxy-1,4:5,8-dimethanonaphthalene

Formula : $C_{12}H_8Cl_6O$

Molecular weight : 380.91 g/mol

CAS-No. : 60-57-1

EC-No. : 200-484-5

Index-No. : 602-049-00-9

Hazardous components

Component	Classification	Concentration
Dieldrin		
	Acute Tox. 2; Acute Tox. 3; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H300, H311, H351, H372, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Dieldrin	60-57-1	TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Liver damage Reproductive effects Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		

		TWA	0.250000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A Potential for dermal absorption		
		TWA	0.250000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available

d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 143 - 144 °C (289 - 291 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Mouse - 38.0 mg/kg

LD50 Oral - Dog - 65.0 mg/kg

LD50 Oral - Monkey - 3.0 mg/kg

LD50 Oral - Rabbit - 45.0 mg/kg

LD50 Oral - Pig - 38.0 mg/kg

LD50 Oral - Guinea pig - 49.0 mg/kg

LD50 Oral - Hamster - 60.0 mg/kg

LD50 Oral - Pigeon - 23.7 mg/kg

LD50 Oral - Chicken - 20.0 mg/kg
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Miosis (pupilliary constriction). Behavioral:Excitement. Behavioral:Food intake (animal).

LD50 Oral - Quail - 10.8 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity). Behavioral:Irritability.

LD50 Oral - Duck - 381.0 mg/kg

LD50 Oral - Mammal - 94.0 mg/kg
Remarks: Peripheral Nerve and Sensation:Flaccid paralysis without anesthesia (usually neuromuscular blockage). Behavioral:Tremor. Behavioral:Convulsions or effect on seizure threshold.

LD50 Oral - Bird (wild) - 13.3 mg/kg

LDLO Oral - Rat - 30.0 mg/kg
Remarks: Liver:Other changes.

LDLO Oral - Human - male - 65.0 mg/kg

LDLO Oral - Cat - 500 mg/kg
Remarks: Lungs, Thorax, or Respiration:Chronic pulmonary edema. Liver:Fatty liver degeneration. Kidney, Ureter, Bladder:Other changes.

TDLo Oral - Rat - 140 mg/kg
Remarks: Liver:Other changes. Blood:Other changes. Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Other esterases.

TDLo Oral - Rat - 109 mg/kg
Remarks: Liver:Changes in liver weight.

TDLo Oral - Rat - 88 mg/kg
Remarks: Behavioral:Food intake (animal). Nutritional and Gross Metabolic:Weight loss or decreased weight gain. Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Phosphatases.

Inhalation: No data available

LD50 Dermal - Rabbit - 250.0 mg/kg

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Dieldrin)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Ingestion - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: IO1750000

Discomfort, Headache, Nausea, Vomiting, Dizziness, Tremors, tonic convulsions, clonic spasms, Coma., respiratory failure, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Blood - Irregularities - Based on Human Evidence
Blood - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LC50 - Carassius auratus (goldfish) - 1.6 µg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 79.5 µg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solids, organic, n.o.s. (Dieldrin)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Dieldrin)
Marine pollutant:yes

IATA
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solid, organic, n.o.s. (Dieldrin)
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Dieldrin	CAS-No. 60-57-1	Revision Date 2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H300	Fatal if swallowed.
H311	Toxic in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 02/28/2015 Print Date: 02/09/2016

SAFETY DATA SHEET

1. Identification

Product identifier **DIESEL FUELS**

Other means of identification

SDS number 102-GHS

Synonyms Diesel Fuels All Grades, Diesel Fuel No.2, Fuel Oil No.2, High Sulfur Diesel Fuel, Low Sulfur Diesel Fuel, Ultra Low Sulfur Diesel Fuel, CARB (California Air Resource Board) Diesel Fuel, Off-Road Diesel Fuel, Dyed Diesel Fuel, X Grade Diesel Fuel, X-1 Diesel Fuel, R5 ULSD, B5 ULS D See section 16 for complete information.

Recommended use Motor Fuel
Refinery feedstock.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Valero Marketing & Supply Company and Affiliates
One Valero Way
San Antonio, TX 78269-6000

General Assistance 210-345-4593

E-Mail CorpHSE@valero.com

Contact Person Industrial Hygienist

Emergency Telephone 24 Hour Emergency 866-565-5220
1-800-424-9300 (CHEMTREC USA)

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs (blood, thymus, liver) through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Do not breathe mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area.

Response	If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. If swallowed: Immediately call a poison center/doctor. Take off contaminated clothing and wash before reuse. In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
Storage	Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Fuels, diesel, no. 2	68476-34-6	85 - 100
Biodiesel - Fatty acid methyl esters	67762-38-3	0 - 10
Fuels, diesel, C9-18-alkane branched and linear	1159170-26-9	0 - 5
n-Nonane	111-84-2	1 - 3
Octane (All isomers)	111-65-9	1 - 2
Hexane (Other isomers)	96-14-0	0 - 1
Naphthalene	91-20-3	0 - 1
n-Heptane	142-82-5	0 - 1
n-Hexane	110-54-3	0 - 1

4. First-aid measures

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin contact	Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.
Most important symptoms/effects, acute and delayed	Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. Unconsciousness. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash. The toxicological properties of this product have not been thoroughly investigated. Use appropriate precautions. Hydrogen sulfide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere.
Indication of immediate medical attention and special treatment needed	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed. The toxicological properties of this material have not been fully investigated.
General information	If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire-fighting measures

Suitable extinguishing media	Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Thermal decomposition or combustion may liberate toxic gases or fumes.
Special protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire-fighting equipment/instructions	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Local authorities should be advised if significant spillages cannot be contained. Stop leak if you can do so without risk. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas. Use non-sparking tools and explosion-proof equipment. Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment. Clean up in accordance with all applicable regulations.
Environmental precautions	If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Flammable. Review Firefighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 1-800-424-8802. For highway or railways spills, contact Chemtrec at 1-800-424-9300.

7. Handling and storage

Precautions for safe handling	Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Wear personal protective equipment. Avoid breathing mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Flammable liquid storage. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3
		10 ppm
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3
		500 ppm
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3
		500 ppm
Octane (All isomers) (CAS 111-65-9)	PEL	2350 mg/m3
		500 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Fuels, diesel, no. 2 (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.
Hexane (Other isomers) (CAS 96-14-0)	STEL	1000 ppm	
	TWA	500 ppm	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
n-Nonane (CAS 111-84-2)	TWA	200 ppm	
Octane (All isomers) (CAS 111-65-9)	TWA	300 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Hexane (Other isomers) (CAS 96-14-0)	Ceiling	1800 mg/m3
		510 ppm
	TWA	350 mg/m3
		100 ppm
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3
		15 ppm
	TWA	50 mg/m3
		10 ppm
n-Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3
		440 ppm
	TWA	350 mg/m3
		85 ppm
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3
		50 ppm
n-Nonane (CAS 111-84-2)	TWA	1050 mg/m3
		200 ppm
Octane (All isomers) (CAS 111-65-9)	Ceiling	1800 mg/m3
		385 ppm
	TWA	350 mg/m3
		75 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedion, without hydrolysis	Urine	*
	0.4 mg/l	2,5-Hexanedi - on, without hydrolysis		*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Fuels, diesel, no. 2 (CAS 68476-34-6) Can be absorbed through the skin.
Naphthalene (CAS 91-20-3) Can be absorbed through the skin.
n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate engineering controls Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

Skin protection

Hand protection Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Other Full body suit and boots are recommended when handling large volumes or in emergency situations. Flame retardant protective clothing is recommended.

Respiratory protection Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for nonroutine and emergency use.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Liquid (may be dyed red).

Physical state Liquid.

Form Liquid.

Color Clear. Straw.

Odor Kerosene (strong).

Odor threshold Not available.

pH Not available.

Melting point/freezing point -60.07 °F (-51.15 °C) Estimated

Initial boiling point and boiling range 325 - 700 °F (162.78 - 371.11 °C)

Flash point > 100.0 °F (> 37.8 °C) Closed Cup

Evaporation rate 0.02

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	0.4 %
Flammability limit - upper (%)	8 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 1 mm Hg (20°C)
Vapor density	3 (Air = 1)
Relative density	0.82 - 0.87
Relative density temperature	60 °F (15.56 °C)
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	494.96 °F (257.2 °C)
Decomposition temperature	Not available.
Viscosity	2 - 4.5 mm²/s

10. Stability and reactivity

Reactivity	Stable at normal conditions.
Chemical stability	Stable under normal temperature conditions and recommended use.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	May be fatal if swallowed and enters airways.
Inhalation	Harmful if inhaled. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.
Skin contact	Causes skin irritation.
Eye contact	May cause eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. Unconsciousness. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash. The toxicological properties of this product have not been thoroughly investigated. Use appropriate precautions.

Information on toxicological effects

Acute toxicity	Harmful if inhaled. Harmful: may cause lung damage if swallowed. The toxicological properties of this material have not been fully investigated.

Components	**Species**	**Test Results**
Fuels, diesel, no. 2 (CAS 68476-34-6)		
Acute		
Inhalation		
LC50	Rat	4.1 mg/l, 4 hours

Components	Species	Test Results
Naphthalene (CAS 91-20-3)		
Acute		
Dermal		
LD50	Rabbit	> 2 g/kg
Oral		
LD50	Rat	490 mg/kg
n-Heptane (CAS 142-82-5)		
Acute		
Inhalation		
LC50	Rat	103 mg/l, 4 Hours
n-Hexane (CAS 110-54-3)		
Acute		
Oral		
LD50	Rat	28710 mg/kg
n-Nonane (CAS 111-84-2)		
Acute		
Inhalation		
LC50	Rat	3200 mg/l, 4 Hours
Octane (All isomers) (CAS 111-65-9)		
Acute		
Inhalation		
LC50	Rat	118 mg/l, 4 Hours

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Suspected of causing cancer.
International Agency for Research on Cancer (IARC): Whole diesel engine exhaust – IARC Group 1. Exposure may cause lung cancer and also noted a positive association with an increased risk of bladder cancer.
Diesel exhaust has been reported to be an occupational hazard due to NIOSH-reported potential carcinogenic properties.

IARC Monographs. Overall Evaluation of Carcinogenicity

Fuels, diesel, no. 2 (CAS 68476-34-6)	3 Not classifiable as to carcinogenicity to humans.
Naphthalene (CAS 91-20-3)	2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Naphthalene (CAS 91-20-3)	Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity Suspected of damaging fertility or the unborn child.
Napthalene interferes with embryo development in experimental animals at dose levels that cause maternal toxicity. In humans, excessive exposure to this agent may cause hemolytic anemia in the mother and fetus.

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure May cause damage to the following organs through prolonged or repeated exposure: Blood. Liver. Thymus.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication. Repeated exposure to naphthalene may cause cataracts, allergic skin rashes, destruction of red blood cells, and anemia, jaundice, kidney and liver damage. Danger of serious damage to health by prolonged exposure. Prolonged or repeated overexposure may cause central nervous system, kidney, liver, and lung damage.

Further information Symptoms may be delayed. Hydrogen sulfide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere. Toxicological properties of this material have not been fully investigated.

12. Ecological information

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Components		Species	Test Results
Fuels, diesel, no. 2 (CAS 68476-34-6)			
Aquatic			
Acute			
Crustacea	EL50	Daphnia magna	68 mg/l, 48 hours
Fish	LL50	Oncorhynchus mykiss	65 mg/l, 96 hours
Naphthalene (CAS 91-20-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	0.95 - 1.62 mg/l, 96 hours
n-Heptane (CAS 142-82-5)			
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	4924 mg/l, 96 hours
n-Hexane (CAS 110-54-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Hexane (Other isomers) (CAS 96-14-0)	3.6
Octane (All isomers) (CAS 111-65-9)	5.18
n-Heptane (CAS 142-82-5)	4.66
n-Hexane (CAS 110-54-3)	3.9
n-Nonane (CAS 111-84-2)	5.46

Mobility in soil Not available.

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose in accordance with all applicable regulations. This material and its container must be disposed of as hazardous waste. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

Hazardous waste code D001: Waste Flammable material with a flash point <140 °F

US RCRA Hazardous Waste U List: Reference

Naphthalene (CAS 91-20-3) U165

Waste from residues / unused products Dispose of in accordance with local regulations.

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

14. Transport information

DOT

UN number UN1202

UN proper shipping name Diesel fuel

Transport hazard class(es)

Class Combustible Liquid

Subsidiary risk -

Packing group III

Environmental hazards

Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	144, B1, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

IATA

UN number	UN1202
UN proper shipping name	Diesel fuel
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Environmental hazards	Yes
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1202
UN proper shipping name	DIESEL FUEL
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-E, S-E
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable. However, this product is a liquid and if transported in bulk covered under MARPOL 73/78, Annex I.

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

n-Nonane (CAS 111-84-2)	1.0 % One-Time Export Notification only.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Hexane (Other isomers) (CAS 96-14-0)	LISTED
Naphthalene (CAS 91-20-3)	LISTED
n-Heptane (CAS 142-82-5)	LISTED
n-Hexane (CAS 110-54-3)	LISTED
n-Nonane (CAS 111-84-2)	LISTED
Octane (All isomers) (CAS 111-65-9)	LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Naphthalene	91-20-3	0 - 1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Naphthalene (CAS 91-20-3)
n-Hexane (CAS 110-54-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Hexane (Other isomers) (CAS 96-14-0)
Naphthalene (CAS 91-20-3)
n-Heptane (CAS 142-82-5)
n-Hexane (CAS 110-54-3)
n-Nonane (CAS 111-84-2)
Octane (All isomers) (CAS 111-65-9)

US. New Jersey Worker and Community Right-to-Know Act

Fuels, diesel, no. 2 (CAS 68476-34-6)
Naphthalene (CAS 91-20-3)
n-Heptane (CAS 142-82-5)
n-Hexane (CAS 110-54-3)
n-Nonane (CAS 111-84-2)
Octane (All isomers) (CAS 111-65-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Fuels, diesel, no. 2 (CAS 68476-34-6)
Hexane (Other isomers) (CAS 96-14-0)
Naphthalene (CAS 91-20-3)
n-Heptane (CAS 142-82-5)
n-Hexane (CAS 110-54-3)
n-Nonane (CAS 111-84-2)
Octane (All isomers) (CAS 111-65-9)

US. Rhode Island RTK

Naphthalene (CAS 91-20-3)
n-Hexane (CAS 110-54-3)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene (CAS 71-43-2)
Toluene (CAS 108-88-3)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

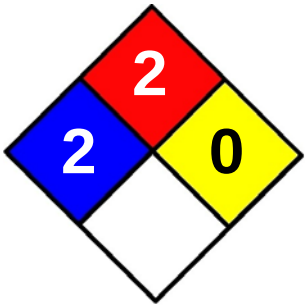
Issue date 13-May-2013

Revision date 23-May-2014

Version # 04

Further information HMIS® is a registered trade and service mark of the NPCA.

NFPA Ratings



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SAFETY DATA SHEET

Version 5.2
Revision Date 06/27/2014
Print Date 11/17/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Endosulfan II (beta)

Product Number : 48578
Brand : Supelco

CAS-No. : 33213-65-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 Toxic if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P321 Specific treatment (see supplemental first aid instructions on this label).
P330 Rinse mouth.
P391 Collect spillage.
P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : β-Endosulfan

Formula : C9H6Cl6O3S
Molecular Weight : 406.93 g/mol
CAS-No. : 33213-65-9

Hazardous components

Component	Classification	Concentration
β-Endosulfan		
	Acute Tox. 3; Aquatic Acute 1; Aquatic Chronic 1; H301, H410	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Sulphur oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
l)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	no data available
o)	Partition coefficient: n-octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - rat - 240.0 mg/kg

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: RB9875200

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - other fish - 0.0066 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - > 0.1 - < 1 mg/l - 48 h

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
Bioaccumulation other fish - 21 d
- 0.0001 mg/l

Bioconcentration factor (BCF): 9,908

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (β-Endosulfan)
Reportable Quantity (RQ): 1 lbs
Marine pollutant: Marine pollutant
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (β-Endosulfan)
Marine pollutant: No

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (β-Endosulfan)

15. REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
β-Endosulfan	33213-65-9	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
β-Endosulfan	33213-65-9	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
β-Endosulfan	33213-65-9	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.2 Revision Date: 06/27/2014 Print Date: 11/17/2016

SAFETY DATA SHEET

Version 5.1
Revision Date 06/27/2014
Print Date 04/20/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Endosulfan sulfate

Product Number : 36676
Brand : Sigma

CAS-No. : 1031-07-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 2), H300
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H300 Fatal if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P321 Specific treatment (see supplemental first aid instructions on this label).
P330 Rinse mouth.
P391 Collect spillage.
P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : $C_9H_6Cl_6O_4S$
Molecular Weight : 422.92 g/mol
CAS-No. : 1031-07-8

Hazardous components

Component	Classification	Concentration
Endosulfan sulfate		
	Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1; H300, H410	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Sulphur oxides

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	179.0 - 182.0 °C (354.2 - 359.6 °F)
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
l)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	log Pow: 3.66
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - rat - 18.0 mg/kg

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: RB9150000

Cholinesterase inhibitors can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhea, tremor, ataxia, sweating, hypothermia, lowered heart rate, and/or a fall in blood pressure as a result of their action at cholinergic nerve sites., Headache, Nausea, Vomiting, Dizziness, Drowsiness, Confusion., Weakness, Muscle cramps/spasms., Change in pupil size., Fever, Seizures., Incoordination., Convulsions, Coma.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Carassius auratus (goldfish) - > 0.01 - < 0.1 mg/l - 48.0 h
	LC50 - Leuciscus idus (Golden orfe) - > 0.01 - < 0.1 mg/l - 48.0 h
	LC50 - other fish - > 0.001 - < 0.01 mg/l - 48.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.76 mg/l - 48 h
	LC50 - Daphnia magna (Water flea) - > 0.1 - < 1 mg/l - 48 h

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: II
Proper shipping name: Toxic solids, organic, n.o.s. (Endosulfan sulfate)
Reportable Quantity (RQ): 1 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Endosulfan sulfate)
Marine pollutant: No

IATA
UN number: 2811 Class: 6.1 Packing group: II
Proper shipping name: Toxic solid, organic, n.o.s. (Endosulfan sulfate)

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Endosulfan sulfate	1031-07-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Endosulfan sulfate	1031-07-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Endosulfan sulfate	1031-07-8	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H300	Fatal if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.1 Revision Date: 06/27/2014 Print Date: 04/20/2016

SAFETY DATA SHEET

Version 5.5
Revision Date 08/09/2016
Print Date 07/31/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Endrin

Product Number : 49032
Brand : Supelco
Index-No. : 602-051-00-X

CAS-No. : 72-20-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 1), H300
Acute toxicity, Dermal (Category 2), H310
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H300 + H310 Fatal if swallowed or in contact with skin
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse

	mouth.
P302 + P350 + P310	IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{12}H_8Cl_6O$
Molecular weight	:	380.91 g/mol
CAS-No.	:	72-20-8
EC-No.	:	200-775-7
Index-No.	:	602-051-00-X

Hazardous components

Component	Classification	Concentration
Endrin		
	Acute Tox. 1; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1; H300 + H310, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Endrin	72-20-8	TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Headache Liver damage Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	0.100000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		

		PEL	0.1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available

f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	log Pow: 5.20
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	226.0 °C (438.8 °F) -
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 3.0 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - 60.0 mg/kg

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - < 0.001 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia pulex (Water flea) - 0.02 mg/l - 48 h
	Immobilization EC50 - Daphnia magna (Water flea) - 0.0042 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Bioaccumulation: Pimephales promelas (fathead minnow) - 56 d - 0.63 mg/l

Bioconcentration factor (BCF): 13,000

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solids, organic, n.o.s. (Endrin)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Endrin)
Marine pollutant:yes

IATA
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solid, organic, n.o.s. (Endrin)

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Endrin	72-20-8	2007-07-01

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Endrin	72-20-8	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Endrin	72-20-8	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Endrin	72-20-8	2007-07-01

California Prop. 65 Components
WARNING: This product contains a chemical known to the CAS-No. Revision Date

State of California to cause birth defects or other reproductive harm. Endrin	72-20-8	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H300	Fatal if swallowed.
H300 + H310	Fatal if swallowed or in contact with skin
H310	Fatal in contact with skin.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 08/09/2016 Print Date: 07/31/2019

SAFETY DATA SHEET

Version 4.10
Revision Date 07/09/2015
Print Date 02/23/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Ethyl Alcohol, pure
Product Number	:	459836
Brand	:	Sigma-Aldrich
Index-No.	:	603-002-00-5
CAS-No.	:	64-17-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word: Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing.

	Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Absolute alcohol
Formula	:	C_2H_6O
Molecular weight	:	46.07 g/mol
CAS-No.	:	64-17-5
EC-No.	:	200-578-6
Index-No.	:	603-002-00-5

Hazardous components

Component	Classification	Concentration
Ethanol		
	Flam. Liq. 2; Eye Irrit. 2A; H225, H319	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hygroscopic.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Ethanol	64-17-5	TWA	1,000.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans		
		TWA	1,000 ppm 1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	1,000.000000 ppm 1,900.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

		TWA	1,000.000000 ppm 1,900.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		STEL	1,000.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 38 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available

c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -114 °C (-173 °F)
f)	Initial boiling point and boiling range	78 °C (172 °F)
g)	Flash point	14.0 °C (57.2 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 19 %(V) Lower explosion limit: 3.3 %(V)
k)	Vapour pressure	59.5 hPa (44.6 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.789 g/mL at 25 °C (77 °F)
n)	Water solubility	completely soluble
o)	Partition coefficient: n-octanol/water	log Pow: -0.349 at 24 °C (75 °F)
p)	Auto-ignition temperature	363.0 °C (685.4 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Alkali metals, Oxidizing agents, Peroxides

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 10,470 mg/kg

LC50 Inhalation - Rat - 4 h - 30,000 mg/l

LD50 Dermal - Rabbit - 15,800 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation - 24 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Moderate eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Carcinogenicity - Mouse - Oral
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Liver:Tumors. Blood:Lymphomas including Hodgkin's disease.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Reproductive toxicity - Human - female - Oral
Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects. Effects on Newborn: Drug dependence.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KQ6300000

Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 14,200 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Ceriodaphnia dubia (water flea) - 5,012 mg/l - 48 h

NOEC - Daphnia magna (Water flea) - 9.6 mg/l - 9 d

Toxicity to algae — EC50 - Chlorella vulgaris (Fresh water algae) - 275 mg/l - 72 h (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability — Result: 95 % - Readily biodegradable

12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1170 Class: 3 Packing group: II
Proper shipping name: Ethanol
Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG

UN number: 1170 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: ETHANOL

IATA

UN number: 1170 Class: 3 Packing group: II
Proper shipping name: Ethanol

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Ethanol	64-17-5	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date

Ethanol	64-17-5	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Ethanol	64-17-5	2007-03-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.10 Revision Date: 07/09/2015 Print Date: 02/23/2016

MATHESON
ask. . .The Gas Professionals™

Safety Data Sheet

Material Name: ETHYL BENZENE **SDS ID: MAT08780**

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
ETHYL BENZENE
Synonyms
MTG MSDS 185; EB; PHENYLETHANE; ETHYLBENZENE; ETHYLBENZOL; ALPHA-METHYLTOLUENE; UN 1175; C8H10
Chemical Family
Hydrocarbons, aromatic
Product Use
industrial.
Restrictions on Use
None known.
Details of the supplier of the safety data sheet
MATHESON TRI-GAS, INC.
150 Allen Road, Suite 302
Basking Ridge, NJ 07920
General Information: 1-800-416-2505
Emergency #: 1-800-424-9300 (CHEMTREC)
Outside the US: 703-527-3887 (Call collect)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Liquids - Category 2
Aspiration Hazard - Category 1
Acute Toxicity - Inhalation - Dust/Mist - Category 4
Acute Toxicity - Inhalation - Vapor - Category 4
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Carcinogenicity - Category 2
Reproductive Toxicity - Category 1B
Specific target organ toxicity - Single exposure - Category 2
Specific target organ toxicity - Single exposure - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (ears , Ears)
Hazardous to the Aquatic Environment - Acute - Category 2
Hazardous to the Aquatic Environment - Chronic - Category 2
GHS Label Elements
Symbol(s)



Signal Word
Danger
Hazard Statement(s)

Highly flammable liquid and vapor.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause damage to organs. (central nervous system)
May cause respiratory irritation.
May be fatal if swallowed and enters airways.
Toxic to aquatic life.

Precautionary Statement(s)

Prevention

Keep away from heat, sparks, open flame, and hot surfaces - No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use Personal Protective equipment as required.
Do not breathe vapor or mist.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.

Response

In case of fire, use media appropriate for extinction.
IF exposed or concerned: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.

Storage

Store in a well-ventilated place.
Keep cool.
Keep container tightly closed.
Store locked up.

Disposal

Dispose in accordance with all applicable regulations.

Statement(s) of Unknown Acute Toxicity

Inhalation 0% of the mixture consists of ingredient(s) of unknown acute toxicity.

Statement(s) of Unknown Aquatic Toxicity
0% of the mixture consists of ingredient(s) of unknown acute aquatic toxicity.
0% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
100-41-4	ETHYL BENZENE	100

Section 4 - FIRST AID MEASURES

Inhalation
If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.
Skin
Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.
Eyes
Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.
Ingestion
aspiration hazard. Do NOT induce vomiting. When vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention immediately. Give artificial respiration if not breathing.
Most Important Symptoms/Effects
Acute
respiratory tract irritation, skin irritation, eye irritation, central nervous system damage, lung damage (from aspiration)
Delayed
cancer, Reproductive Effects
Note to Physicians
For inhalation, consider oxygen.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
regular dry chemical, carbon dioxide, water spray, regular foam, Large fires: Use water spray, fog or regular foam.
Unsuitable Extinguishing Media
Do not use high-pressure water streams.
Special Hazards Arising from the Chemical
Severe fire hazard. Vapor/air mixtures are explosive above flash point. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Electrostatic discharges may be generated by flow or agitation resulting in ignition or explosion.
Hazardous Combustion Products
Oxides of carbon
Fire Fighting Measures
Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank,

rail car or tank truck: Evacuation radius: 800 meters (1/2 mile). Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Water may be ineffective.

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Avoid heat, flames, sparks and other sources of ignition. Eliminate all ignition sources if safe to do so. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Prevent entry into waterways, sewers, basements, or confined areas. Reduce vapors with water spray. Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Dike for later disposal. Remove sources of ignition. Use water spray to reduce vapors or divert vapor cloud drift. Keep unnecessary people away, isolate hazard area and deny entry. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use Personal Protective equipment as required. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid release to the environment.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place.
Keep cool.
Keep container tightly closed.
Store locked up.
Store and handle in accordance with all current regulations and standards. Store in a well-ventilated area. Keep cool. Keep container tightly closed. Keep locked up. Grounding and bonding required. Keep separated from incompatible substances. Protect from physical damage. Store outside or in a detached building. Store with flammable liquids. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106.

Incompatible Materials

Acids, bases, oxidizing materials, combustible materials

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

ETHYL BENZENE	**100-41-4**

ACGIH:	20 ppm TWA
NIOSH:	100 ppm TWA ; 435 mg/m3 TWA
	125 ppm STEL ; 545 mg/m3 STEL
	800 ppm IDLH (10% LEL)
Europe:	100 ppm TWA ; 442 mg/m3 TWA
	Possibility of significant uptake through the skin
	200 ppm STEL ; 884 mg/m3 STEL
OSHA (US):	100 ppm TWA ; 435 mg/m3 TWA
Mexico:	100 ppm TWA VLE-PPT ; 435 mg/m3 TWA VLE-PPT
	125 ppm STEL [PPT-CT]; 545 mg/m3 STEL [PPT-CT]

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)
ETHYL BENZENE (100-41-4)
0.15 g/g creatinine Medium: urine Time: end of shift Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

Engineering Controls
Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection
Wear appropriate chemical resistant clothing.

Respiratory Protection
The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA. 800 ppm. Any air-purifying half-mask respirator equipped with organic vapor cartridge(s). Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister. Any powered, air-purifying respirator with organic vapor cartridge(s). Any supplied-air respirator. Any self-contained breathing apparatus with a full facepiece. Emergency or planned entry into unknown concentrations or IDLH conditions -. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Escape -. Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister. Any appropriate escape-type, self-contained breathing apparatus. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Glove Recommendations
Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	**Physical State**	liquid
Odor	aromatic odor	**Color**	colorless
Odor Threshold	140 ppm	**pH**	Not available
Melting Point	-95 °C (-139 °F)	**Boiling Point**	136 °C (277 °F)
Boiling Point Range	Not available	**Freezing point**	Not available
Evaporation Rate	<1 (Butyl acetate = 1)	**Flammability (solid, gas)**	Not available
Autoignition Temperature	432 °C (810 °F)	**Flash Point**	15 °C Closed Cup (59 °F)
Lower Explosive Limit	0.8 %	**Decomposition temperature**	Not available
Upper Explosive Limit	6.7 %	**Vapor Pressure**	7.1 mmHg @ 20 °C
Vapor Density (air=1)	3.66	**Specific Gravity (water=1)**	0.867
Water Solubility	0.015 %	**Partition coefficient: n-octanol/water**	154170.05
Viscosity	0.64 cp	**Kinematic viscosity**	Not available
Solubility (Other)	Not available	**Bioconcentration Factor (BCF)**	36.39
Density	Not available	**Henry's Law Constant**	0.00788 atm-m3/mole
KOC	520 (Estimated)	**Physical Form**	liquid
Volatility	100 %	**Molecular Formula**	C-H3-C-H2-C6-H5
Molecular Weight	106.17	**OSHA Flammability Class**	IB

Solvent Solubility
Soluble
alcohol, ether, Benzene, sulfur dioxide, carbon tetrachloride
Insoluble
ammonia

Section 10 - STABILITY AND REACTIVITY

Reactivity
No reactivity hazard is expected.
Chemical Stability
Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions
Will not polymerize.
Conditions to Avoid
Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.
Incompatible Materials
Acids, bases, oxidizing materials, combustible materials
Hazardous decomposition products
Oxides of carbon

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure
Inhalation
irritation (possibly severe), chest pain, difficulty breathing, emotional disturbances, headache, drowsiness, dizziness, loss of coordination, coma, cancer
Skin Contact
irritation
Eye Contact
irritation
Ingestion
nausea, vomiting, stomach pain, aspiration hazard
Acute and Chronic Toxicity
Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
ETHYL BENZENE (100-41-4)
Oral LD50 Rat 3500 mg/kg
Dermal LD50 Rabbit 15400 mg/kg
Inhalation LC50 Rat 17.4 mg/L 4 h
Product Toxicity Data
Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Vapor	17.4 mg/L
Oral	> 2000 mg/kg

Immediate Effects
respiratory tract irritation, skin irritation, eye irritation, central nervous system damage, lung damage (from aspiration)
Delayed Effects
Reproductive Effects, cancer
Irritation/Corrosivity Data
respiratory tract irritation, skin irritation, eye irritation
Respiratory Sensitization
No data available.
Dermal Sensitization
No data available.
Component Carcinogenicity

ETHYL BENZENE	**100-41-4**
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 4 (no significant contribution to human cancer)
OSHA:	Present

Germ Cell Mutagenicity
No data available.
Tumorigenic Data
No data available
Reproductive Toxicity
Available data characterizes components of this product as reproductive hazards.
Specific Target Organ Toxicity - Single Exposure
central nervous system, Respiratory system
Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.
Aspiration hazard
This material is an aspiration hazard.
Medical Conditions Aggravated by Exposure
kidney disorders, liver disorders, respiratory disorders, skin disorders and allergies
Additional Data
May cross the placenta.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic life.
Component Analysis - Aquatic Toxicity

ETHYL BENZENE	**100-41-4**
Fish:	LC50 96 h Oncorhynchus mykiss 11 - 18 mg/L [static]; LC50 96 h Oncorhynchus mykiss 4.2 mg/L [semi-static]; LC50 96 h Pimephales promelas 7.55 - 11 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 32 mg/L [static]; LC50 96 h Pimephales promelas 9.1 - 15.6 mg/L [static]; LC50 96 h Poecilia reticulata 9.6 mg/L [static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata 4.6 mg/L IUCLID ; EC50 96 h Pseudokirchneriella subcapitata >438 mg/L IUCLID ; EC50 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L [static] EPA ; EC50 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 1.8 - 2.4 mg/L IUCLID

Persistence and Degradability
Not expected to undergo hydrolysis in the environment.
Bioaccumulative Potential
Bioconcentration potential in aquatic organisms is low based on a BCF value of 15.
Mobility

Expected to have moderate mobility in soil.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262.
Hazardous Waste Number(s): D001.
Component Waste Numbers
The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
Shipping Name: ETHYLBENZENE
Hazard Class: 3
UN/NA #: UN1175
Packing Group: II
Required Label(s): 3
Marine pollutant

IMDG Information:
Shipping Name: ETHYLBENZENE
Hazard Class: 3
UN#: UN1175
Packing Group: II
Required Label(s): 3
Marine pollutant
International Bulk Chemical Code
This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

ETHYL BENZENE	**100-41-4**
IBC Code:	Category Y

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

ETHYL BENZENE	**100-41-4**
SARA 313:	0.1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories
Flammable; Carcinogenicity; Acute toxicity; Reproductive Toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Aspiration Hazard
U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
ETHYL BENZENE	**100-41-4**	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause cancer

ETHYL BENZENE	**100-41-4**
Carc:	carcinogen , 6/11/2004

Canada Regulations
Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

ETHYL BENZENE	**100-41-4**
	0.1 %

WHMIS Classification
B2
Component Analysis - Inventory
ETHYL BENZENE (100-41-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN - NCI (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

NFPA Ratings
Health: 2 Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
Summary of Changes
Updated: 05/01/2015
Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research

on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN NCI (Draft) - Vietnam National Chemicals Inventory (NCI) (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada) .

Other Information

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SAFETY DATA SHEET

Helium

Section 1. Identification

GHS product identifier : Helium

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

Product use : Synthetic/Analytical chemistry.

Synonym : helium (dot); Helium-4; He; o-Helium; UN 1046

SDS # : 001025

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Compressed gas

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction.

Prevention : Use and store only outdoors or in a well ventilated place.

Response : Not applicable.

Storage : Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

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Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

CAS number/other identifiers

CAS number : 7440-59-7

Product code : 001025

Ingredient name	%	CAS number
Helium	100	7440-59-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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Section 4. First aid measures

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Helium	Oxygen Depletion [Asphyxiant]

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Molecular weight : 4 g/mole

Molecular formula : He

Boiling/condensation point : -268.9°C (-452°F)

Melting/freezing point : -272.2°C (-458°F)

Critical temperature : -267.9°C (-450.2°F)

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Flash point : [Product does not sustain combustion.]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : 0.14 (Air = 1) Liquid Density@BP: 7.8 lb/ft3 (125 kg/m3)

Specific Volume (ft^3/lb) : 96.1538

Gas Density (lb/ft^3) : 0.0104

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : 0.28

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

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Section 9. Physical and chemical properties

SADT : Not available.

Viscosity : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Helium	0.28	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1046	UN1046	UN1046	UN1046	UN1046
UN proper shipping name	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED
Transport hazard class(es)	2.2 	2.2 	2.2 	2.2 	2.2 
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg	**Explosive Limit and Limited Quantity Index** 0.125 **Passenger Carrying Road or Rail Index** 75	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 75 kg **Cargo Aircraft Only** Quantity limitation: 150 kg

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

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Section 14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Sudden release of pressure

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Helium	100	No.	Yes.	No.	No.	No.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

Canada inventory : This material is listed or exempted.

International regulations

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Section 15. Regulatory information

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: Not determined.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

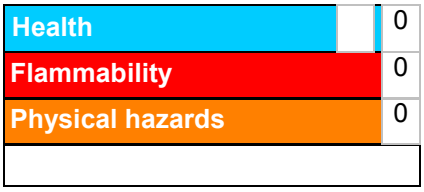
WHMIS (Canada) : Class A: Compressed gas.

CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is not listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 10/15/2014.

Date of issue/Date of revision : 10/15/2014.

Date of previous issue : 10/2/2014.

Version : 0.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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SAFETY DATA SHEET

Version 6.7
Revision Date 08/06/2024
Print Date 08/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Potassium hydrogen phthalate

Product Number : P1088
Brand : Sigma-Aldrich
CAS-No. : 877-24-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	KHP Potassium biphthalate Potassium phthalate monobasic Phthalic acidmonopotassium salt Potassium hydrogen phthalate
Formula	:	$C_8H_5KO_4$
Molecular weight	:	204.22 g/mol
CAS-No.	:	877-24-7
EC-No.	:	212-889-4

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first-aid measures
No data available

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media
No data available

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Potassium oxides
Combustible.

5.3 Advice for firefighters
No data available

5.4 Further information
No data available

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For personal protection see section 8.

6.2 Environmental precautions
No data available

6.3 Methods and materials for containment and cleaning up
No data available

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
No data available

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please

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contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Control of environmental exposure
Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Crystalline solid Color: white
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	4 at 25 °C (77 °F)
e)	Melting point/freezing point	Melting point/ range: 295 - 300 °C (563 - 572 °F) - dec.
f)	Initial boiling point and boiling range	> 300 °C > 572 °F at 977.5 hPa - OECD Test Guideline 103
g)	Flash point	197.3 °C (387.1 °F) - Pensky-Martens closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable. - Regulation (EC) No. 440/2008, Annex, A.10
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	1.571 g/cm3 at 20 °C (68 °F)
	Relative density	No data available
n)	Water solubility	93 g/l at 30 °C (86 °F) - OECD Test Guideline 105
o)	Partition coefficient: n-octanol/water	log Pow: <= -3.9 at 30 °C (86 °F) - Bioaccumulation is not expected.
p)	Autoignition temperature	does not ignite
q)	Decomposition temperature	No data available
r)	Viscosity	No data available

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s) Explosive properties No data available

t) Oxidizing properties none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
No data available

10.3 Possibility of hazardous reactions
Violent reactions possible with:
Strong oxidizing agents
Nitric acid

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimate Oral - 2,500 mg/kg
(Calculation method)
LD50 Oral - Rat - > 3,200 mg/kg
Remarks: (ECHA)
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
Remarks: slight irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
(ECHA)

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Respiratory or skin sensitization
In vitro study
Result: negative
(OECD Test Guideline 442D)

Germ cell mutagenicity
Test Type: Ames test
Test system: S. typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: CZ4326000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - 329.5 mg/l - 72 h (OECD Test Guideline 201)

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Toxicity to bacteria	Remarks: (ECHA) (potassium hydrogen phthalate)

12.2 Persistence and degradability

Biodegradability	Result: 97.34 % - Readily biodegradable. (OECD Test Guideline 301D)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

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SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.7 Revision Date: 08/06/2024 Print Date: 08/07/2024

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Safety Data Sheet

20ppm Hydrogen Sulfide, 60ppm Carbon Monoxide, 58% LEL Pentane Simulant, 15% VOL Oxygen; balance Nitrogen

Ideal Calibrations, LLC
2750 Oakwood Blvd.
Melvindale, MI 48122
(734) 956-0539
http://www.idealcalibrations.com/

Section 1: Product and Company Identification

Ideal Calibrations, LLC
2750 Oakwood Blvd.
Melvindale, MI 48122
(734) 956-0539
http://www.idealcalibrations.com/

Product Code: 20ppm Hydrogen Sulfide, 60ppm Carbon Monoxide, 58% LEL Pentane Simulant, 15% VOL Oxygen; balance Nitrogen
Part Number: 0219

Synonyms:
Recommended Use: Calibration of gas detection devices
Usage Restrictions: Do not use if current date is past expiration date on cylinder

Section 2: Hazards Identification



Warning

Hazard Classification:
Gases Under Pressure

Hazard Statements:
Contains gas under pressure; may explode if heated
Toxic to aquatic life

Precautionary Statements

Storage:
Protect from sunlight.
Store in well-ventilated place.

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Section 3: Composition/Information on Ingredients

	CAS #	Concentration
Hydrogen Sulfide	7783-06-4	0.002
Carbon Monoxide	630-08-0	0.006
Methane	74-82-8	1.45
Oxygen	7782-44-7	15
Nitrogen	7727-37-9	83.542

	Chemical Substance	Chemical Family	Trade Names
Hydrogen Sulfide	HYDROGEN SULFIDE	Inorganic gases	HYDROGEN SULFIDE (H2S); DIHYDROGEN MONOSULFIDE; DIHYDROGEN SULFIDE; HYDROSULFURIC ACID; SULFUR DIHYDRIDE; SULFURETED HYDROGEN; SULFUR HYDRIDE; STINK DAMP; SEWER GAS; RCRA U135; UN 1053; H2S
Carbon Monoxide	CARBON MONOXIDE	Inorganic gases	CARBON OXIDE; CARBON OXIDE (CO); UN 1016; CO
Methane	METHANE, COMPRESSED GAS	Hydrocarbons, Aliphatic, Saturated	FIRE DAMP; MARSH GAS; METHYL HYDRIDE; NATURAL GAS; METHANE; UN 1971; R50; CH4
Oxygen	OXYGEN, COMPRESSED GAS	Inorganic gases	OXYGEN; DIOXYGEN; MOLECULAR OXYGEN; OXYGEN MOLECULE; PURE OXYGEN; UN 1072; O2
Nitrogen	NITROGEN, COMPRESSED GAS	Inorganic gases	DIATOMIC NITROGEN; DINITROGEN; NITROGEN; NITROGEN-14; NITROGEN GAS; UN 1066; N2

Section 4: First Aid Measures

	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Hydrogen Sulfide	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Carbon Monoxide	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Methane	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Oxygen	None expected	None expected	Not likely route of exposure	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.	None

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	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Nitrogen	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

Section 5: Fire Fighting Measures

	Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Hydrogen Sulfide	Let burn unless leak can be stopped immediately. Large fires: Use regular foam or flood with fine water spray.	Sulfur oxides	▪ Any self-contained breathing apparatus with a full facepiece. ▪ Protective material types: butyl rubber, polyvinyl chloride (PVC), neoprene
Carbon Monoxide	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon dioxide	▪ Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. ▪ Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Methane	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon monoxide, carbon dioxide, water	▪ Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece. ▪ Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.
Oxygen	Non-flammable. Use extinguishing agent appropriate for the material which is burning. Use water in large quantities for fires involving oxygen.	Oxides of burning material	▪ Respiratory protection may be needed for frequent or heavy exposure. ▪ None
Nitrogen	Non-flammable. Use suitable extinguishing media for surrounding fire. Cylinders may rupture or explode if exposed to heat.	Non-flammable	▪ Respiratory protection may be needed for frequent or heavy exposure.

Section 6: Accidental Release Measures

	Personal Precautions	Environmental Precautions	Methods for Containment
Hydrogen Sulfide	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Ventilate closed spaces before entering. Evacuation radius: 150 feet. For tank, rail car or tank truck: 800 meters (1/2 mile). Do not touch spilled material.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Remove sources of ignition. Reduce vapors with water spray. Do not get water directly on material.
Carbon Monoxide	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition. Keep out of water supplies and sewers.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Methane	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Oxygen	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid contact with combustible materials.	Stop leak if possible without personal risk.
Nitrogen	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	No significant effects from contamination expected.	Stop leak if possible without personal risk.

	Methods for Cleanup	Other Information

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	Methods for Cleanup	Other Information
Hydrogen Sulfide	Collect runoff for disposal as potential hazardous waste. Dike for later disposal. Absorb with sand or other non-combustible material. Add an alkaline material (lime, crushed limestone, sodium bicarbonate, or soda ash).	Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).
Carbon Monoxide	Stop leak, evacuate area. Wear protective equipment.	Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
Methane	Not available	Not available
Oxygen	Stop leak and ventilate	None
Nitrogen	N/A	N/A

Section 7: Handling and Storage

	Handling	Storage
Hydrogen Sulfide	Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store outside or in a detached building. Store in a cool, dry place. Store in a well-ventilated area. Avoid contact with light. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Notify State Emergency Response Commission for storage or use at amounts greater than or equal to the TPQ (U.S. EPA SARA Section 302). SARA Section 303 requires facilities storing a material with a TPQ to participate in local emergency response planning (U.S. EPA 40 CFR 355.30). Keep separated from incompatible substances.	Subject to handling regulations: U.S. OSHA 29 CFR 1910.119.
Carbon Monoxide	Keep separated from incompatible substances.	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.
Methane	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.
Oxygen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.
Nitrogen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.

Section 8: Exposure Controls/Personal Protection

	Exposure Guidelines
Hydrogen Sulfide	HYDROGEN SULFIDE: 20 ppm OSHA ceiling 50 ppm OSHA peak 10 minute(s) (once if no other measurable exposure occurs) 10 ppm (14 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 15 ppm (21 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 10 ppm ACGIH TWA 15 ppm ACGIH STEL 10 ppm (15 mg/m3) NIOSH recommended ceiling 10 minute(s) TLV-TWA: 1ppm Upper respiratory irritation (ACGIH)
Carbon Monoxide	CARBON MONOXIDE: 50 ppm (55 mg/m3) OSHA TWA 35 ppm (40 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 200 ppm (229 mg/m3) OSHA ceiling (vacated by 58 FR 35338, June 30, 1993) 25 ppm ACGIH TWA 35 ppm (40 mg/m3) NIOSH recommended TWA 10 hour(s) 200 ppm (229 mg/m3) NIOSH recommended ceiling
Methane	METHANE, COMPRESSED GAS: ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA METHANE: No occupational exposure limits established. ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA
Oxygen	OXYGEN, COMPRESSED GAS: No occupational exposure limits established.
Nitrogen	NITROGEN, COMPRESSED GAS: NITROGEN: ACGIH (simple asphyxiant)

Engineering Controls

Handle only in fully enclosed systems.

	Eye Protection	Skin Protection	Respiratory Protection
Hydrogen Sulfide	Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	Wear appropriate chemical resistant clothing.	Any self-contained breathing apparatus with a full facepiece.
Carbon Monoxide	Eye protection not required, but recommended.	Protective clothing is not required.	Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

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	Eye Protection	Skin Protection	Respiratory Protection
Methane	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.
Oxygen	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.
Nitrogen	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

	Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Hydrogen Sulfide	Gas	Colorless	Colorless	N/A	Gas	Rotten egg odor	N/A
Carbon Monoxide	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless
Methane	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless
Oxygen	Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless
Nitrogen	Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless

	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Hydrogen Sulfide	Flammable	Not available	Not available	500 F (260 C)	45.5%	3.9%
Carbon Monoxide	Flammable	Not available	1479.11 (log = 3.17) (estimated from water solubility)	1128-1202 F (609-650 C)	0.74	12.0-12.5%
Methane	-369 F (-223 C)	Not available	724.44 (log = 2.87) (estimated from water solubility)	999 F (537 C)	15%	5%
Oxygen	Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable
Nitrogen	Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable

	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
Hydrogen Sulfide	-78 to -77 F (-61 to -60.3 C)	-123 F (-86 C)	15200 mmHg @ 25 C	1.2 (Air=1)	1.192	2.58-2.9% @ 20 C	4.5-<7 (saturated solution)	0.13 ppm	Not applicable	0.0128 cP @ 25 C
Carbon Monoxide	-312.7 F (-191.5 C)	-326 F (-199 C)	760 mmHg @ -191 C gas; cannot be liquefied at room temperature	0.968 (Air=1)	Not applicable	2.3% @ 20 C	Not applicable	Not available	Not applicable	0.01657 cP @ 0 C
Methane	-260 F (-162 C)	-297 F (-183 C)	760 mmHg @ -161 C	0.555 (Air=1)	Not applicable	3.5% @ 17 C	Not applicable	Not available	Not applicable	0.01118 cP @ 27 C
Oxygen	-297 F (-183 C)	-360 F (-218 C)	760 mmHg @ -183 C	1.1 (Air=1)	Not applicable	3.2% @ 25 C	Not applicable	Not available	Not applicable	0.02075 cP @ 25 C
Nitrogen	-321 F (-196 C)	-346 F (-210 C)	760 mmHg @ -196 C	0.967 (Air=1)	Not applicable	1.6% @ 20 C	Not applicable	Not available	Not applicable	0.01787 cP @ 27 C

	Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility

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	Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
Hydrogen Sulfide	34.08	H2-S	1.539 g/L @ 0 C	Not available	Not available	Not applicable	Soluble: Carbon disulfide, alcohol, ether, glycerol, gasolines, kerosene, crude oil, alkali solutions
Carbon Monoxide	28.01	C-O	1.250 g/L @ 0 C	Not available	100%	Not applicable	Soluble: Alcohol, benzene, acetic acid, ethyl acetate, chloroform, cuprous chloride solutions
Methane	16.04	C-H4	0.717 g/L @ 0 C	Not available	Not applicable	Not applicable	Soluble: Alcohol, ether, benzene, organic solvents
Oxygen	31.9988	O2	1.309 g/L @ 25 C	Not available	Not applicable	Not applicable	Soluble: Alcohol
Nitrogen	28.0134	N2	1.2506 g/L	Not available	100%	1	Soluble: Liquid ammonia

Section 10: Stability and Reactivity

	Stability	Conditions to Avoid	Incompatible Materials
Hydrogen Sulfide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, metals, oxidizing materials, halogens, metal oxides, metal salts, bases, rust, oxidants, oxygen, copper powder, acetaldehyde, silver fulminate
Carbon Monoxide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Oxidizing materials, halogens, metal oxides, metals, combustible materials, lithium
Methane	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Halogens, oxidizing materials, combustible materials
Oxygen	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, halo carbons, metals, bases, reducing agents, amines, metal salts, oxidizing materials, alkaline earth and alkali metals
Nitrogen	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Metals, oxidizing materials

	Hazardous Decomposition Products	Possibility of Hazardous Reactions
Hydrogen Sulfide	Oxides of sulfur	Will not polymerize.
Carbon Monoxide	Oxides of carbon	Will not polymerize.
Methane	Oxides of carbon	Will not polymerize.
Oxygen	Miscellaneous decomposition products	Will not polymerize.
Nitrogen	Oxides of nitrogen	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

	Oral LD50	Dermal LD50	Inhalation
Hydrogen Sulfide	444 ppm inhalation-rat LC50	Irritation 0.000125 ppm/5 hour(s) eyes-human	Irritation, lack of sense of smell, sensitivity to light, nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, disorientation, tremors, visual disturbances, suffocation, lung congestion, internal bleeding, heart damage, nerve damage, brain damage, coma, death
Carbon Monoxide	LC50 Inhalation Gas. Rat 1807 ppm 4 hours	Not available	Changes in body temperature, changes in blood pressure, nausea, vomiting, chest pain, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, disorientation, hallucinations, pain in extremities, tremors, loss of coordination, hearing loss, visual disturbances, eye damage, suffocation, blood disorders, convulsions, coma
Methane	Not available	Not available	Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, fatigue, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma
Oxygen	Not established	Not established	Irritation, changes in body temperature, nausea, difficulty breathing, irregular heartbeat, dizziness, disorientation, hallucinations, mood swings, pain in extremities, tremors, lung congestion, convulsions
Nitrogen	Not available	Not available	Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma

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	Eye Irritation	Skin Irritation	Sensitization
Hydrogen Sulfide	Irritation, sensitivity to light, visual disturbances	Irritation liquid: frostbite	Acute toxicity, Category 2, inhalation; H330: Fatal if inhaled. Specific Target Organ Toxicity (single exposure), Category 3; H335: May cause respiratory irritation. Hazardous to the aquatic environment, Acute Category 1; H400: Very toxic to aquatic life
Carbon Monoxide	No information on significant adverse effects	No information on significant adverse effects	Acute toxicity, Category 3, inhalation; H331: Toxic if inhaled. Reproductive toxicity, Category 1A; H360D: May damage the unborn child. Specific Target Organ Toxicity (repeated exposure), Category 1; H372: Causes damage to organs through prolonged or repeated exposure.
Methane	No information on significant adverse effects	No information on significant adverse effects	Difficulty breathing
Oxygen	No information on significant adverse effects	No information on significant adverse effects	No significant target effects reported.
Nitrogen	Contact with rapidly expanding gas may cause burns or frostbite	No information on significant adverse effects	Difficulty breathing

Chronic Effects

	Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Hydrogen Sulfide	Not available	Not available	Available.	No data
Carbon Monoxide	Not available	Available.	Available.	No data
Methane	Not available	Not available	Not available	No data
Oxygen	Not known.	Available.	Available.	No data
Nitrogen	Not hazardous	Not available	Not available	No data

Section 12: Ecological Information

Fate and Transport

	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Hydrogen Sulfide	Fish toxicity: Acute LC50 7 ug/L Fresh water Fish - Fathead minnow - Pimephales promelas - FRY 96 hours; 14.9 ug/L 96 hour(s) LC50 (Mortality) Fathead minnow (Pimeph Invertibrate toxicity: 9730 ug/L 1.5 hour(s) (Mortality) Mediterranean mussel (Mytilus galloprovincialis) Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Highly toxic to aquatic life.	Not available	Not available
Carbon Monoxide	Fish toxicity: 75000 ug/L 1 day(s) LC100 (Mortality) Orangespotted sunfish (Lepomis humilis) Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Highly volatile from water.	Not available	Not expected to leach through the soil or the sediment.
Methane	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Moderately volatile from water.	Accumulates very little in the bodies of living organisms.	Not expected to leach through the soil or the sediment.
Oxygen	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Low bioaccumulation	Not available
Nitrogen	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Not available	Not available

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Section 13: Disposal Considerations

Hydrogen Sulfide	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U135.
Carbon Monoxide	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Methane	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Oxygen	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Nitrogen	Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

DOT Information For This Mixture

Shipping Name	Compressed gas, n.o.s. (Nitrogen, Oxygen)
UN Number	UN1956
Hazard Class	2.2
Hazard Information	Non-Flammable Gas

Individual Component Information

	Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Hydrogen Sulfide	Hydrogen sulfide	UN1053	2.3	Not applicable	2.3; 2.1	Forbidden	Forbidden	Toxic-Inhalation Hazard Zone B
Carbon Monoxide	Carbon monoxide, compressed	UN1016	2.3	Not applicable	2.3; 2.1	Forbidden	25 kg	Toxic-Inhalation Hazard Zone D
Methane	Methane, compressed	UN1971	2.1	Not applicable	2.1	Forbidden	150 kg	N/A
Oxygen	Oxygen, compressed	UN1072	2.2	Not available	2.2; 5.1	75 kg or L	150 kg	N/A
Nitrogen	Nitrogen, compressed	UN1066	2.2	Not applicable	2.2	75 kg or L	150 kg	N/A

Canadian Transportation of Dangerous Goods

	Shipping Name	UN Number	Class	Packing Group / Risk Group
Hydrogen Sulfide	HYDROGEN SULFIDE; or HYDROGEN SULPHIDE	UN1053	2.3; 2.1	Not applicable
Carbon Monoxide	Carbon monoxide, compressed	UN1016	2.3; 2.1	Not applicable
Methane	Methane, compressed	UN1971	2.1	Not applicable
Oxygen	Oxygen, compressed	UN1072	2.2; 5.1	Not applicable
Nitrogen	Nitrogen, compressed	UN1066	2.2	Not applicable

Section 15: Regulatory Information

U.S. Regulations

	CERCLA Sections	SARA 355.30	SARA 355.40
Hydrogen Sulfide	100 LBS RQ	500 LBS TPQ	100 LBS RQ
Carbon Monoxide	Not regulated.	Not regulated.	Not regulated.
Methane	Not regulated.	Not regulated.	Not regulated.
Oxygen	Not regulated.	Not regulated.	Not regulated.

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Nitrogen	Not regulated.	Not regulated.	Not regulated.

SARA 370.21

	Acute	Chronic	Fire	Reactive	Sudden Release
Hydrogen Sulfide	Yes	No	Yes	No	Yes
Carbon Monoxide	Yes	No	Yes	No	Yes
Methane	Yes	No	Yes	No	Yes
Oxygen	No	No	Yes	No	Yes
Nitrogen	Yes	No	No	No	Yes

SARA 372.65

Hydrogen Sulfide	HYDROGEN SULFIDE: Administrative stay issued Aug. 22, 1994
Carbon Monoxide	Not regulated.
Methane	Not regulated.
Oxygen	Not regulated.
Nitrogen	Not regulated.

OSHA Process Safety

Hydrogen Sulfide	1500 LBS TQ
Carbon Monoxide	Not regulated.
Methane	Not regulated.
Oxygen	Not regulated.
Nitrogen	Not regulated.

State Regulations

	CA Proposition 65
Hydrogen Sulfide	Not regulated.
Carbon Monoxide	WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
Methane	Not regulated.
Oxygen	Not regulated.
Nitrogen	Not regulated.

Canadian Regulations

	WHMIS Classification
Hydrogen Sulfide	A, B1, D1A, D2B.
Carbon Monoxide	A, B1, D1A, D2A.
Methane	A, B1
Oxygen	A,C
Nitrogen	A

National Inventory Status

	US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Hydrogen Sulfide	Listed on inventory.	Not listed.	Listed on inventory.
Carbon Monoxide	Listed on inventory.	Not listed.	Listed on inventory.
Methane	Listed on inventory.	Not listed.	Listed on inventory.
Oxygen	Listed on inventory.	Not listed.	Not determined.
Nitrogen	Listed on inventory.	Not listed.	Listed on inventory.

Section 16: Other Information

	NFPA Rating
Hydrogen Sulfide	HEALTH=4 FIRE=4 REACTIVITY=0
Carbon Monoxide	HEALTH=2 FIRE=4 REACTIVITY=0
Methane	HEALTH=0 FIRE=4 REACTIVITY=0
Oxygen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=OX
Nitrogen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=SA

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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Safety Data Sheet

20ppm Hydrogen Sulfide, 60ppm Carbon Monoxide, 58% LEL Pentane Simulant, 15.0% VOL Oxygen, 2.5% VOL Carbon Dioxide; balance Nitrogen

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http://www.idealcalibrations.com/

Section 1: Product and Company Identification

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Product Code: 20ppm Hydrogen Sulfide, 60ppm Carbon Monoxide, 58% LEL Pentane Simulant, 15.0% VOL Oxygen, 2.5% VOL Carbon Dioxide; balance Nitrogen
Part Number: 0522

Synonyms:
Recommended Use: Calibration of gas detection devices
Usage Restrictions: Do not use if current date is past expiration date on cylinder

Section 2: Hazards Identification



Warning

Hazard Classification:
Gases Under Pressure

Hazard Statements:
Contains gas under pressure; may explode if heated
Toxic to aquatic life

Precautionary Statements

Storage:
Protect from sunlight.
Store in well-ventilated place.

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Section 3: Composition/Information on Ingredients

	CAS #	Concentration
Hydrogen Sulfide	7783-06-4	0.002
Carbon Monoxide	630-08-0	0.006
Methane	74-82-8	1.45
Oxygen	7782-44-7	15
Carbon Dioxide	124-38-9	2.5
Nitrogen	7727-37-9	81.042

	Chemical Substance	Chemical Family	Trade Names
Hydrogen Sulfide	HYDROGEN SULFIDE	Inorganic gases	HYDROGEN SULFIDE (H2S); DIHYDROGEN MONOSULFIDE; DIHYDROGEN SULFIDE; HYDROSULFURIC ACID; SULFUR DIHYDRIDE; SULFURETED HYDROGEN; SULFUR HYDRIDE; STINK DAMP; SEWER GAS; RCRA U135; UN 1053; H2S
Carbon Monoxide	CARBON MONOXIDE	Inorganic gases	CARBON OXIDE; CARBON OXIDE (CO); UN 1016; CO
Methane	METHANE, COMPRESSED GAS	Hydrocarbons, Aliphatic, Saturated	FIRE DAMP; MARSH GAS; METHYL HYDRIDE; NATURAL GAS; METHANE; UN 1971; R50; CH4
Oxygen	OXYGEN, COMPRESSED GAS	Inorganic gases	OXYGEN; DIOXYGEN; MOLECULAR OXYGEN; OXYGEN MOLECULE; PURE OXYGEN; UN 1072; O2
Carbon Dioxide	CARBON DIOXIDE, GAS	Inorganic gases	CARBONIC ACID GAS; CARBONIC ANHYDRIDE; CARBON DIOXIDE; CARBON OXIDE; UN 1013; CO2
Nitrogen	NITROGEN, COMPRESSED GAS	Inorganic gases	DIATOMIC NITROGEN; DINITROGEN; NITROGEN; NITROGEN-14; NITROGEN GAS; UN 1066; N2

Section 4: First Aid Measures

	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Hydrogen Sulfide	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Carbon Monoxide	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Methane	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

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	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Oxygen	None expected	None expected	Not likely route of exposure	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.	None
Carbon Dioxide	If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.	Contact with liquid: Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	Do not induce vomiting.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Nitrogen	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

Section 5: Fire Fighting Measures

	Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Hydrogen Sulfide	Let burn unless leak can be stopped immediately. Large fires: Use regular foam or flood with fine water spray.	Sulfur oxides	▪ Any self-contained breathing apparatus with a full facepiece. ▪ Protective material types: butyl rubber, polyvinyl chloride (PVC), neoprene
Carbon Monoxide	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon dioxide	▪ Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. ▪ Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Methane	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon monoxide, carbon dioxide, water	▪ Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece. ▪ Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.
Oxygen	Non-flammable. Use extinguishing agent appropriate for the material which is burning. Use water in large quantities for fires involving oxygen.	Oxides of burning material	▪ Respiratory protection may be needed for frequent or heavy exposure. ▪ None
Carbon Dioxide	Non-flammable	Non-flammable	▪ Any appropriate escape-type, self-contained breathing apparatus. ▪ Non-flammable
Nitrogen	Non-flammable. Use suitable extinguishing media for surrounding fire. Cylinders may rupture or explode if exposed to heat.	Non-flammable	▪ Respiratory protection may be needed for frequent or heavy exposure.

Section 6: Accidental Release Measures

	Personal Precautions	Environmental Precautions	Methods for Containment

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	Personal Precautions	Environmental Precautions	Methods for Containment
Hydrogen Sulfide	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Ventilate closed spaces before entering. Evacuation radius: 150 feet. For tank, rail car or tank truck: 800 meters (1/2 mile). Do not touch spilled material.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Remove sources of ignition. Reduce vapors with water spray. Do not get water directly on material.
Carbon Monoxide	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition. Keep out of water supplies and sewers.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Methane	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Oxygen	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid contact with combustible materials.	Stop leak if possible without personal risk.
Carbon Dioxide	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Do not touch spilled material.	Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). Keep out of water supplies and sewers.	Stop leak if possible without personal risk.
Nitrogen	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	No significant effects from contamination expected.	Stop leak if possible without personal risk.

	Methods for Cleanup	Other Information
Hydrogen Sulfide	Collect runoff for disposal as potential hazardous waste. Dike for later disposal. Absorb with sand or other non-combustible material. Add an alkaline material (lime, crushed limestone, sodium bicarbonate, or soda ash).	Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).
Carbon Monoxide	Stop leak, evacuate area. Wear protective equipment.	Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
Methane	Not available	Not available
Oxygen	Stop leak and ventilate	None
Carbon Dioxide	Stop leak, evacuate, remove source of ignition.	None
Nitrogen	N/A	N/A

Section 7: Handling and Storage

	Handling	Storage
Hydrogen Sulfide	Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store outside or in a detached building. Store in a cool, dry place. Store in a well-ventilated area. Avoid contact with light. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Notify State Emergency Response Commission for storage or use at amounts greater than or equal to the TPQ (U.S. EPA SARA Section 302). SARA Section 303 requires facilities storing a material with a TPQ to participate in local emergency response planning (U.S. EPA 40 CFR 355.30). Keep separated from incompatible substances.	Subject to handling regulations: U.S. OSHA 29 CFR 1910.119.
Carbon Monoxide	Keep separated from incompatible substances.	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.
Methane	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.
Oxygen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.
Carbon Dioxide	Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.	Store and handle in accordance with all current regulations and standards
Nitrogen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.

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Section 8: Exposure Controls/Personal Protection

	Exposure Guidelines
Hydrogen Sulfide	HYDROGEN SULFIDE: 20 ppm OSHA ceiling 50 ppm OSHA peak 10 minute(s) (once if no other measurable exposure occurs) 10 ppm (14 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 15 ppm (21 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 10 ppm ACGIH TWA 15 ppm ACGIH STEL 10 ppm (15 mg/m3) NIOSH recommended ceiling 10 minute(s) TLV-TWA: 1ppm Upper respiratory irritation (ACGIH)
Carbon Monoxide	CARBON MONOXIDE: 50 ppm (55 mg/m3) OSHA TWA 35 ppm (40 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 200 ppm (229 mg/m3) OSHA ceiling (vacated by 58 FR 35338, June 30, 1993) 25 ppm ACGIH TWA 35 ppm (40 mg/m3) NIOSH recommended TWA 10 hour(s) 200 ppm (229 mg/m3) NIOSH recommended ceiling
Methane	METHANE, COMPRESSED GAS: ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA METHANE: No occupational exposure limits established. ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA
Oxygen	OXYGEN, COMPRESSED GAS: No occupational exposure limits established.
Carbon Dioxide	CARBON DIOXIDE, GAS: CARBON DIOXIDE: 5000 ppm (9000 mg/m3) OSHA TWA 10000 ppm (18000 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 30000 ppm (54000 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 5000 ppm ACGIH TWA 30000 ppm ACGIH STEL 5000 ppm (9000 mg/m3) NIOSH recommended TWA 10 hour(s) 30000 ppm (54000 mg/m3) NIOSH recommended STEL
Nitrogen	NITROGEN, COMPRESSED GAS: NITROGEN: ACGIH (simple asphyxiant)

Engineering Controls

Handle only in fully enclosed systems.

	Eye Protection	Skin Protection	Respiratory Protection
Hydrogen Sulfide	Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	Wear appropriate chemical resistant clothing.	Any self-contained breathing apparatus with a full facepiece.
Carbon Monoxide	Eye protection not required, but recommended.	Protective clothing is not required.	Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Methane	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.
Oxygen	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.
Carbon Dioxide	For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.	Any appropriate escape-type, self-contained breathing apparatus.
Nitrogen	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

	Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Hydrogen Sulfide	Gas	Colorless	Colorless	N/A	Gas	Rotten egg odor	N/A
Carbon Monoxide	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless
Methane	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless
Oxygen	Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless
Carbon Dioxide	Gas	Colorless	Colorless	N/A	Gas	Odorless	Acid taste
Nitrogen	Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless

	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits

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	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Hydrogen Sulfide	Flammable	Not available	Not available	500 F (260 C)	45.5%	3.9%
Carbon Monoxide	Flammable	Not available	1479.11 (log = 3.17) (estimated from water solubility)	1128-1202 F (609-650 C)	0.74	12.0-12.5%
Methane	-369 F (-223 C)	Not available	724.44 (log = 2.87) (estimated from water solubility)	999 F (537 C)	15%	5%
Oxygen	Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable
Carbon Dioxide	Not flammable	Not available	N/A	Nonflammable	Nonflammable	Nonflammable
Nitrogen	Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable

	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
Hydrogen Sulfide	-78 to -77 F (-61 to -60.3 C)	-123 F (-86 C)	15200 mmHg @ 25 C	1.2 (Air=1)	1.192	2.58-2.9% @ 20 C	4.5-<7 (saturated solution)	0.13 ppm	Not applicable	0.0128 cP @ 25 C
Carbon Monoxide	-312.7 F (-191.5 C)	-326 F (-199 C)	760 mmHg @ -191 C gas; cannot be liquefied at room temperature	0.968 (Air=1)	Not applicable	2.3% @ 20 C	Not applicable	Not available	Not applicable	0.01657 cP @ 0 C
Methane	-260 F (-162 C)	-297 F (-183 C)	760 mmHg @ -161 C	0.555 (Air=1)	Not applicable	3.5% @ 17 C	Not applicable	Not available	Not applicable	0.01118 cP @ 27 C
Oxygen	-297 F (-183 C)	-360 F (-218 C)	760 mmHg @ -183 C	1.1 (Air=1)	Not applicable	3.2% @ 25 C	Not applicable	Not available	Not applicable	0.02075 cP @ 25 C
Carbon Dioxide	Not available	-71 F (-57 C) @ 4000 mmHg	43700 mmHg @ 21 C	1.5 (Air=1)	1.522 @ 21 C	Soluble	3.7 (saturated aqueous solution) @ 101.3 kPa (carbonic acid)	Not available	Not applicable	0.01657 cP @ 0 C
Nitrogen	-321 F (-196 C)	-346 F (-210 C)	760 mmHg @ -196 C	0.967 (Air=1)	Not applicable	1.6% @ 20 C	Not applicable	Not available	Not applicable	0.01787 cP @ 27 C

	Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
Hydrogen Sulfide	34.08	H2-S	1.539 g/L @ 0 C	Not available	Not available	Not applicable	Soluble: Carbon disulfide, alcohol, ether, glycerol, gasolines, kerosene, crude oil, alkali solutions
Carbon Monoxide	28.01	C-O	1.250 g/L @ 0 C	Not available	100%	Not applicable	Soluble: Alcohol, benzene, acetic acid, ethyl acetate, chloroform, cuprous chloride solutions
Methane	16.04	C-H4	0.717 g/L @ 0 C	Not available	Not applicable	Not applicable	Soluble: Alcohol, ether, benzene, organic solvents
Oxygen	31.9988	O2	1.309 g/L @ 25 C	Not available	Not applicable	Not applicable	Soluble: Alcohol
Carbon Dioxide	44.01	C-O2	0.114	Not available	Not applicable	Not applicable	Soluble: Alcohol, acetone, hydrocarbons, organic solvents
Nitrogen	28.0134	N2	1.2506 g/L	Not available	100%	1	Soluble: Liquid ammonia

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Section 10: Stability and Reactivity

	Stability	Conditions to Avoid	Incompatible Materials
Hydrogen Sulfide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, metals, oxidizing materials, halogens, metal oxides, metal salts, bases, rust, oxidants, oxygen, copper powder, acetaldehyde, silver fulminate
Carbon Monoxide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Oxidizing materials, halogens, metal oxides, metals, combustible materials, lithium
Methane	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Halogens, oxidizing materials, combustible materials
Oxygen	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, halo carbons, metals, bases, reducing agents, amines, metal salts, oxidizing materials, alkaline earth and alkali metals
Carbon Dioxide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, oxidizing materials, metal salts, reducing agents, metal carbide, metals, bases
Nitrogen	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Metals, oxidizing materials

	Hazardous Decomposition Products	Possibility of Hazardous Reactions
Hydrogen Sulfide	Oxides of sulfur	Will not polymerize.
Carbon Monoxide	Oxides of carbon	Will not polymerize.
Methane	Oxides of carbon	Will not polymerize.
Oxygen	Miscellaneous decomposition products	Will not polymerize.
Carbon Dioxide	Carbon monoxide	Will not polymerize.
Nitrogen	Oxides of nitrogen	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

	Oral LD50	Dermal LD50	Inhalation
Hydrogen Sulfide	444 ppm inhalation-rat LC50	Irritation 0.000125 ppm/5 hour(s) eyes-human	Irritation, lack of sense of smell, sensitivity to light, nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, disorientation, tremors, visual disturbances, suffocation, lung congestion, internal bleeding, heart damage, nerve damage, brain damage, coma, death
Carbon Monoxide	LC50 Inhalation Gas. Rat 1807 ppm 4 hours	Not available	Changes in body temperature, changes in blood pressure, nausea, vomiting, chest pain, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, disorientation, hallucinations, pain in extremities, tremors, loss of coordination, hearing loss, visual disturbances, eye damage, suffocation, blood disorders, convulsions, coma
Methane	Not available	Not available	Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, fatigue, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma
Oxygen	Not established	Not established	Irritation, changes in body temperature, nausea, difficulty breathing, irregular heartbeat, dizziness, disorientation, hallucinations, mood swings, pain in extremities, tremors, lung congestion, convulsions
Carbon Dioxide	Not established	Not established	Ringing in the ears, nausea, irregular heartbeat, headache, drowsiness, dizziness, tingling sensation, visual disturbances, suffocation, convulsions, coma
Nitrogen	Not available	Not available	Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma

	Eye Irritation	Skin Irritation	Sensitization
Hydrogen Sulfide	Irritation, sensitivity to light, visual disturbances	Irritation liquid: frostbite	Acute toxicity, Category 2, inhalation; H330: Fatal if inhaled. Specific Target Organ Toxicity (single exposure), Category 3; H335: May cause respiratory irritation. Hazardous to the aquatic environment, Acute Category 1; H400: Very toxic to aquatic life
Carbon Monoxide	No information on significant adverse effects	No information on significant adverse effects	Acute toxicity, Category 3, inhalation; H331: Toxic if inhaled. Reproductive toxicity, Category 1A; H360D: May damage the unborn child. Specific Target Organ Toxicity (repeated exposure), Category 1; H372: Causes damage to organs through prolonged or repeated exposure.

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	Eye Irritation	Skin Irritation	Sensitization
Methane	No information on significant adverse effects	No information on significant adverse effects	Difficulty breathing
Oxygen	No information on significant adverse effects	No information on significant adverse effects	No significant target effects reported.
Carbon Dioxide	Irritation, frostbite, blurred vision	Liquid: blisters, frostbite	Difficulty breathing
Nitrogen	Contact with rapidly expanding gas may cause burns or frostbite	No information on significant adverse effects	Difficulty breathing

Chronic Effects

	Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Hydrogen Sulfide	Not available	Not available	Available.	No data
Carbon Monoxide	Not available	Available.	Available.	No data
Methane	Not available	Not available	Not available	No data
Oxygen	Not known.	Available.	Available.	No data
Carbon Dioxide	Not available	Not established	Available.	No data
Nitrogen	Not hazardous	Not available	Not available	No data

Section 12: Ecological Information

Fate and Transport

	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Hydrogen Sulfide	Fish toxicity: Acute LC50 7 ug/L Fresh water Fish - Fathead minnow - Pimephales promelas - FRY 96 hours; 14.9 ug/L 96 hour(s) LC50 (Mortality) Fathead minnow (Pimeph Invertibrate toxicity: 9730 ug/L 1.5 hour(s) (Mortality) Mediterranean mussel (Mytilus galloprovincialis) Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Highly toxic to aquatic life.	Not available	Not available
Carbon Monoxide	Fish toxicity: 75000 ug/L 1 day(s) LC100 (Mortality) Orangespotted sunfish (Lepomis humilis) Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Highly volatile from water.	Not available	Not expected to leach through the soil or the sediment.
Methane	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Moderately volatile from water.	Accumulates very little in the bodies of living organisms.	Not expected to leach through the soil or the sediment.
Oxygen	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Low bioaccumulation	Not available
Carbon Dioxide	Fish toxicity: 150000 ug/L 48 day(s) (Mortality) Brown trout (Salmo trutta) Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Moderately volatile from water.	Accumulates very little in the bodies of living organisms.	Leaches through the soil
Nitrogen	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Not available	Not available

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Section 13: Disposal Considerations

Hydrogen Sulfide	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U135.
Carbon Monoxide	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Methane	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Oxygen	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Carbon Dioxide	Dispose in accordance with all applicable regulations.
Nitrogen	Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

DOT Information For This Mixture

Shipping Name	Compressed gas, n.o.s. (Nitrogen, Oxygen)
UN Number	UN1956
Hazard Class	2.2
Hazard Information	Non-Flammable Gas

Individual Component Information

	Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Hydrogen Sulfide	Hydrogen sulfide	UN1053	2.3	Not applicable	2.3; 2.1	Forbidden	Forbidden	Toxic-Inhalation Hazard Zone B
Carbon Monoxide	Carbon monoxide, compressed	UN1016	2.3	Not applicable	2.3; 2.1	Forbidden	25 kg	Toxic-Inhalation Hazard Zone D
Methane	Methane, compressed	UN1971	2.1	Not applicable	2.1	Forbidden	150 kg	N/A
Oxygen	Oxygen, compressed	UN1072	2.2	Not available	2.2; 5.1	75 kg or L	150 kg	N/A
Carbon Dioxide	Carbon dioxide	UN1013	2.2	Not applicable	2.2	75 kg or L	150kg	None
Nitrogen	Nitrogen, compressed	UN1066	2.2	Not applicable	2.2	75 kg or L	150 kg	N/A

Canadian Transportation of Dangerous Goods

	Shipping Name	UN Number	Class	Packing Group / Risk Group
Hydrogen Sulfide	HYDROGEN SULFIDE; or HYDROGEN SULPHIDE	UN1053	2.3; 2.1	Not applicable
Carbon Monoxide	Carbon monoxide, compressed	UN1016	2.3; 2.1	Not applicable
Methane	Methane, compressed	UN1971	2.1	Not applicable
Oxygen	Oxygen, compressed	UN1072	2.2; 5.1	Not applicable
Carbon Dioxide	Carbon dioxide	UN1013	2.2	Not applicable
Nitrogen	Nitrogen, compressed	UN1066	2.2	Not applicable

Section 15: Regulatory Information

U.S. Regulations

	CERCLA Sections	SARA 355.30	SARA 355.40

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Hydrogen Sulfide	100 LBS RQ	500 LBS TPQ	100 LBS RQ
Carbon Monoxide	Not regulated.	Not regulated.	Not regulated.
Methane	Not regulated.	Not regulated.	Not regulated.
Oxygen	Not regulated.	Not regulated.	Not regulated.
Carbon Dioxide	Not regulated.	Not regulated.	Not regulated.
Nitrogen	Not regulated.	Not regulated.	Not regulated.

SARA 370.21

	Acute	Chronic	Fire	Reactive	Sudden Release
Hydrogen Sulfide	Yes	No	Yes	No	Yes
Carbon Monoxide	Yes	No	Yes	No	Yes
Methane	Yes	No	Yes	No	Yes
Oxygen	No	No	Yes	No	Yes
Carbon Dioxide	Yes	No	No	No	Yes
Nitrogen	Yes	No	No	No	Yes

SARA 372.65

Hydrogen Sulfide	HYDROGEN SULFIDE: Administrative stay issued Aug. 22, 1994
Carbon Monoxide	Not regulated.
Methane	Not regulated.
Oxygen	Not regulated.
Carbon Dioxide	Not regulated.
Nitrogen	Not regulated.

OSHA Process Safety

Hydrogen Sulfide	1500 LBS TQ
Carbon Monoxide	Not regulated.
Methane	Not regulated.
Oxygen	Not regulated.
Carbon Dioxide	Not regulated.
Nitrogen	Not regulated.

State Regulations

	CA Proposition 65
Hydrogen Sulfide	Not regulated.
Carbon Monoxide	WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
Methane	Not regulated.
Oxygen	Not regulated.
Carbon Dioxide	Not regulated.
Nitrogen	Not regulated.

Canadian Regulations

	WHMIS Classification
Hydrogen Sulfide	A, B1, D1A, D2B.
Carbon Monoxide	A, B1, D1A, D2A.
Methane	A, B1
Oxygen	A,C
Carbon Dioxide	A
Nitrogen	A

National Inventory Status

	US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Hydrogen Sulfide	Listed on inventory.	Not listed.	Listed on inventory.
Carbon Monoxide	Listed on inventory.	Not listed.	Listed on inventory.
Methane	Listed on inventory.	Not listed.	Listed on inventory.
Oxygen	Listed on inventory.	Not listed.	Not determined.
Carbon Dioxide	Listed on inventory.	Not listed.	Listed on inventory.
Nitrogen	Listed on inventory.	Not listed.	Listed on inventory.

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Section 16: Other Information

	NFPA Rating
Hydrogen Sulfide	HEALTH=4 FIRE=4 REACTIVITY=0
Carbon Monoxide	HEALTH=2 FIRE=4 REACTIVITY=0
Methane	HEALTH=0 FIRE=4 REACTIVITY=0
Oxygen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=OX
Carbon Dioxide	HEALTH=3 FIRE=0 REACTIVITY=0 SPECIAL=SA
Nitrogen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=SA

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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SAFETY DATA SHEET

Creation Date 30-Oct-2009 **Revision Date** 24-Dec-2021 **Revision Number** 4

1. Identification

Product Name **Potassium hydrogen phthalate**

Cat No. : **AC177120000; AC177120025; AC177120050; AC177121000; AC177125000**

CAS No 877-24-7
Synonyms Potassium acid phthalate; Potassium biphthalate

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC)
None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation persists.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

Ingestion Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects No information available.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
1	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures None under normal use conditions.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	3.8-4.0 5% aq.sol
Melting Point/Range	295 - 300 °C / 563 - 572 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C8 H5 K O4
Molecular Weight	204.22

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,2-Benzenedicarboxylic acid, monopotassium salt	LD50 > 3200 mg/kg (Rat)	>1000 mg/kg	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	X	-	212-889-4	X	X	X	X	X	KE-02310

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations Not applicable

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 30-Oct-2009
Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

HORIBA

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-4, 500-4, 560-4 (pH 4.01 buffer solution)

Product code: 3999960018, 3999960029, 3999960146

Recommended use: For laboratory and Industrial use

Manufacturer / Supplier: Horiba Instruments (Singapore) Pte Ltd
83 Science Park Drive, #02-02A, The Curie
Singapore-118258
Contact No: +65 69089600

Section 2. Hazard identification

Classification of the Substance or Mixture: Mixture

The mixture is classified as not hazardous according to regulation (EC) 1272/2008, Globally Harmonized System (GHS)

GHS Label elements:

Signal word: No Signal word
Hazard statement: No Known significant effects or critical hazards

Precautionary statements:
General: Do not handle until all safety precautions have been read and understood

Other hazards which do not result in classification: None known

Section 3. Composition/ information on ingredients

Substance or Mixture: Mixture

CAS Numbers other identifiers:

Ingredients	CAS Number	Percentage
Potassium Hydrogen Phthalate	877-24-7	<2%
Water	7732-18-5	>98%

This product contains <0.01% other ingredient, not required to be listed as it is not hazardous to health and environment.

The exact percentage of composition has been withheld as a trade secret

Chemical formula: Not applicable

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove any contact lenses. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion:	Clean mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, both acute and delayed

Potential acute health effects: No known significant effects or critical hazards

Over-exposure signs/symptoms: No specific data available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting Measures

Extinguishing Media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing Media: No Information available

Specific hazards arising from the substance or mixture: No specific information available

Hazardous thermal decomposition products: No Specific data

Special protective actions for Fire-fighters: Promptly isolate the scene by removing all persons from the incident if there is fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

Section 6. Accidental release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, water ways, soil and air

Methods and material for containment and cleaning up:

Method for Containment: Prevent further leakage or spillage if safe to do so.

Methods of cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits: None

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not available
pH:	4.01
Melting Point:	Not available
Boiling Point:	100° C
Flash point:	[Product does not sustain combustion.]
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive (Flammable) limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Partition coefficient n- octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable
Possibility of hazardous reactions:	Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions to avoid:	No specific data
Incompatible materials:	No specific data
Hazardous decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity:	Not available
Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available
Teratogenicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available
Information on the likely routes of exposure:	Not available

Potential acute effects:

Eye contact:	No known significant effects or critical hazards
Inhalation:	No known significant effects or critical hazards
Skin contact:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	No specific data
Inhalation:	No specific data
Skin contact:	No specific data
Ingestion:	No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects:	Not available
Potential delayed effects:	Not available

Long term exposure

Potential immediate effects	Not available
Potential delayed effects:	Not available

Potential chronic health effects:	Not available
General:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates:	Not available

Section 12. Ecological information

Toxicity:	Not available
Persistence/degradability:	Not available

Bio accumulative potential: Not available

Mobility in soil
Soil/water
partition coefficient (K_{OC}): Not available

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal consideration

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.
International Inventories:
USINV Complies

CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Key of abbreviation:
USINV / TSCA: United States Toxic Substanc3es Control Act Section 8(b) Inventory
CANINV / DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS: Japanese Existing and New Chemical Substances
IECSC: Chinese Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemical and Chemical Substances
AICS: Australian Inventory of Chemical Substances

Chemical safety assessment:
A chemical safety assessment according to regulation (EC) No: 1907/2006 is not required.

Section 16. Other information

History:

Date of issue: 6 March 2018

Key of abbreviation:
ATE: Acute Toxicity Estimate
BCF: Bioconcentration Factor
GHS: Globally harmonized System of classification and labelling of chemicals
IATA: International Air Transport Association
IBC= Intermediate Bulk Container
IMDG International maritime Dangerous goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above- named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

HORIBA

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-7, 500-7, 560-7 (pH 7 buffer solution)

Product code: 3999960020, 3999960031, 3999960147

Recommended use: For laboratory and Industrial use

Manufacturer / Supplier: Horiba Instruments (Singapore) Pte Ltd
83 Science Park Drive, #02-02A, The Curie
Singapore-118258
Contact No: +65 69089600

Section 2. Hazard identification

Classification of the Substance or Mixture: Mixture

The mixture is classified as not hazardous according to regulation (EC) 1272/2008, Globally Harmonized System (GHS)

GHS Label elements:

Signal word: No Signal word
Hazard statement: No Known significant effects or critical hazards

Precautionary statements:
General: Do not handle until all safety precautions have been read and understood

Other hazards which do not result in classification: None known

Section 3. Composition/ information on ingredients

Substance or Mixture: Mixture

CAS Numbers other identifiers:

Ingredients	CAS Number	Percentage
Potassium Dihydrogen Phosphate	7778-77-0	<1%
Disodium Hydrogen Phosphate	7558-79-4	<1%
Water	7732-18-5	>98%

This product contains <0.01% other ingredient, not required to be listed as it is not hazardous to health and environment.

The exact percentage of composition has been withheld as a trade secret

Chemical formula: Not applicable

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove any contact lenses. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, both acute and delayed

Potential acute health effects: No known significant effects or critical hazards

Over-exposure signs/symptoms: No specific data available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting Measures

Extinguishing Media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing Media: No Information available

Specific hazards arising from the substance or mixture: No specific information available

Hazardous thermal decomposition products: No Specific data

Special protective actions for Fire-fighters: Promptly isolate the scene by removing all persons from the incident if there is fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

Section 6. Accidental release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, water ways, soil and air

Methods and material for containment and cleaning up:

Method for Containment: Prevent further leakage or spillage if safe to do so.

Methods of cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Section 7. Handling and storage

Precautions for safe handling
Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits: None

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures
Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not available
pH:	6.86
Melting Point:	Not available
Boiling Point:	100° C
Flash point:	[Product does not sustain combustion.]
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive (Flammable) limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Partition coefficient n- octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable
Possibility of hazardous reactions:	Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions to avoid:	No specific data
Incompatible materials:	No specific data
Hazardous decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity:	Not available
Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available
Teratogenicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available
Information on the likely routes of exposure:	Not available

Potential acute effects:

Eye contact:	No known significant effects or critical hazards
Inhalation:	No known significant effects or critical hazards
Skin contact:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	No specific data
Inhalation:	No specific data
Skin contact:	No specific data
Ingestion:	No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects:	Not available
Potential delayed effects:	Not available

Long term exposure

Potential immediate effects:	Not available
Potential delayed effects:	Not available

Potential chronic health effects: Not available

General:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates: Not available

Section 12. Ecological information

Toxicity: Not available

Persistence/degradability: Not available

Bio accumulative potential: Not available

Mobility in soil

Soil/water partition coefficient (K_{OC}): Not available

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal consideration

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.

International Inventories:

USINV	Complies
CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Complies

IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Key of abbreviation:
USINV / TSCA: United States Toxic Substanc3es Control Act Section 8(b) Inventory
CANINV / DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS: Japanese Existing and New Chemical Substances
IECSC: Chinese Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemical and Chemical Substances
AICS: Australian Inventory of Chemical Substances

Chemical safety assessment:
A chemical safety assessment according to regulation (EC) No: 1907/2006 is not required.

Section 16. Other information

History:

Date of issue: 28 Feb 2018

Key of abbreviation:
ATE: Acute Toxicity Estimate
BCF: Bioconcentration Factor
GHS: Globally harmonized System of classification and labelling of chemicals
IATA: International Air Transport Association
IBC= Intermediate Bulk Container
IMDG International maritime Dangerous goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above- named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

HORIBA

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-10, 500-10, 560-10 (pH 10.01 buffer solution)

Product code: 3999960022, 3999960033, 3999960138

Recommended use: For laboratory and Industrial use

Manufacturer / Supplier: Horiba Instruments (Singapore) Pte Ltd
83 Science Park Drive, #02-02A, The Curie
Singapore-118258
Contact No: +65 69089600

Section 2. Hazard identification

Classification of the Substance or Mixture: Mixture

The mixture is classified as not hazardous according to regulation (EC) 1272/2008, Globally Harmonized System (GHS)

GHS Label elements:

Signal word: No Signal word
Hazard statement: No Known significant effects or critical hazards

Precautionary statements:
General: Do not handle until all safety precautions have been read and understood

Other hazards which do not result in classification: None known

Section 3. Composition/ information on ingredients

Substance or Mixture: Mixture

CAS Numbers other identifiers:

Ingredients	CAS Number	Percentage
Sodium Carbonate	497-19-8	<1%
Sodium Bicarbonate	144-55-8	<1%
Water	7732-18-5	>98%

This product contains <0.01% other ingredient, not required to be listed as it is not hazardous to health and environment.

The exact percentage of composition has been withheld as a trade secret

Chemical formula: Not applicable

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove any contact lenses. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, both acute and delayed

Potential acute health effects: No known significant effects or critical hazards

Over-exposure signs/symptoms: No specific data available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting Measures

Extinguishing Media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing Media: No Information available

Specific hazards arising from the substance or mixture: No specific information available

Hazardous thermal decomposition products: No Specific data

Special protective actions for Fire-fighters: Promptly isolate the scene by removing all persons from the incident if there is fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

Section 6. Accidental release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, water ways, soil and air

Methods and material for containment and cleaning up:

Method for Containment: Prevent further leakage or spillage if safe to do so.

Methods of cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Section 7. Handling and storage

Precautions for safe handling
Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits: None

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures
Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with

side-shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not available
pH:	10.01
Melting Point:	Not available
Boiling Point:	100° C
Flash point:	[Product does not sustain combustion.]
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive (Flammable) limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Partition coefficient n- octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable

Possibility of hazardous reactions: Hazardous reactions or instability may occur under certain conditions of storage or use.

Conditions to avoid: No specific data

Incompatible materials: No specific data

Hazardous decomposition

Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity:	Not available
Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available
Teratogenicity:	Not available
Specific target organ: toxicity (single exposure):	Not available
Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available
Information on the likely routes of exposure:	Not available

Potential acute effects:

Eye contact:	No known significant effects or critical hazards
Inhalation:	No known significant effects or critical hazards
Skin contact:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	No specific data.
Inhalation:	No specific data.
Skin contact:	No specific data.
Ingestion:	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effect:	Not available
Potential delayed effects:	Not available

Long term exposure

Potential immediate effects:	Not available
Potential delayed effects:	Not available

Potential chronic health effects:	Not available
General:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates:	Not available

Section 12. Ecological information

Toxicity:	Not available
Persistence/degradability:	Not available
Bio accumulative potential:	Not available

Mobility in soil
Soil/water partition coefficient (K_{OC}): Not available

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal consideration

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.
International Inventories:

USINV	Complies
CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Complies

IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Key of abbreviation:
USINV / TSCA: United States Toxic Substanc3es Control Act Section 8(b) Inventory
CANINV / DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS: Japanese Existing and New Chemical Substances
IECSC: Chinese Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemical and Chemical Substances
AICS: Australian Inventory of Chemical Substances

Chemical safety assessment:
A chemical safety assessment according to regulation (EC) No: 1907/2006 is not required.

Section 16. Other information

History:

Date of issue: 6 March 2018

Key of abbreviation:
ATE: Acute Toxicity Estimate
BCF: Bioconcentration Factor
GHS: Globally harmonized Syatem of classification and labelling of chemicals
IATA: International Air Transport Association
IBC= Intermediate Bulk Container
IMDG International maritime Dangerous goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above- named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

HORIBA

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-3; 560-3 (internal filling solution for pH combination electrode)

Product code: 3999960023; 3999960139

Recommended use: For laboratory and Industrial use

Manufacturer / Supplier: Horiba Instruments (Singapore) Pte Ltd
83 Science Park Drive, #02-02A, The Curie
Singapore-118258
Contact No: +65 69089660

Section 2. Hazard identification

Classification of the Substance or Mixture: Mixture

The mixture is classified as not hazardous according to regulation (EC) 1272/2008, Globally Harmonized System (GHS)

GHS Label elements:

Signal word: No Signal word
Hazard statement: No Known significant effects or critical hazards

Precautionary statements:
General: Do not handle until all safety precautions have been read and understood

Other hazards which do not result in classification: None known

Section 3. Composition/ information on ingredients

Substance or Mixture: Mixture

CAS Numbers other identifiers:

Ingredients	CAS Number	Percentage
Potassium Chloride	7447-40-7	<25%
Water	7732-18-5	>75%

The exact percentage of composition has been withheld as a trade secret

Chemical formula: Not applicable

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove any contact lenses. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion:	Clean mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, both acute and delayed

Potential acute health effects:

Eye contact: Causes eye irritation

Over-exposure signs/symptoms: No specific data available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting Measures

Extinguishing Media

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing Media:	No Information available
Specific hazards arising from the substance or mixture:	No specific information available
Hazardous thermal decomposition products:	No Specific data
Special protective actions for Fire-fighters:	Promptly isolate the scene by removing all persons from the incident if there is fire. No action shall be taken involving any personal risk or without suitable training
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment self- contained breathing apparatus with a full face-piece operated in positive pressure mode.

Section 6. Accidental release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material.
For emergency responders:	If specialized clothing is required to deal with the spillage, take note of any information

In section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, water ways, soil and air.

Methods and material for containment and cleaning up:

Method for Containment: Prevent further leakage or spillage if safe to do so.

Methods of cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Section 7. Handling and storage

Precautions for safe handling
Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters
Occupational exposure limits: None

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process Equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures
Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection
Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should

	be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not available
pH:	Not available
Melting Point:	Not available
Boiling Point:	100° C
Flash point:	[Product does not sustain combustion.]
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive: (Flammable) limits	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Partition coefficient: n- octanol/water	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients
Chemical stability:	The product is stable
Possibility of hazardous:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data
Incompatible materials:	No specific data
Hazardous decomposition: Products	Under normal conditions of storage and use, hazardous decomposition products should be produced

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity:	Not available
Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available
Teratogenicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Specific target organ: toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available
Information on the likely: routes of exposure	Not available

Potential acute health effects:

Eye contact:	Causes eye irritation
Inhalation:	No known significant effects or critical hazards
Skin contact:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	Adverse symptoms may include irritation, watering and redness
Inhalation:	No specific data
Skin contact:	No specific data
Ingestion:	No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate: effects	Not available
Potential delayed effects:	Not available

Long term exposure

Potential immediate: effects	Not available
Potential delayed effects:	Not available

Potential chronic health effects:	Not available
General:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates:	Not available

Section 12. Ecological information

Toxicity:	Not available
Persistence/degradability:	Not available
Bio accumulative potential:	Not available
Mobility in soil Soil/water partition coefficient (K_{OC}):	Not available
Other adverse effects:	No known significant effects or critical hazards.

Section 13. Disposal consideration

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are ` upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.
International Inventories:

USINV	Complies
CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Key of abbreviation:
USINV / TSCA: United States Toxic Substanc3es Control Act Section 8(b) Inventory
CANINV / DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS: Japanese Existing and New Chemical Substances
IECSC: Chinese Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemical and Chemical Substances
AICS: Australian Inventory of Chemical Substances

Chemical safety assessment:
A chemical safety assessment according to regulation (EC) No: 1907/2006 is not required.

Section 16. Other information

History:

Date of issue: 8 March 2018

Key of abbreviation:

ATE: Acute Toxicity Estimate

BCF: Bioconcentration Factor

GHS: Globally harmonized Syatem of classification and labelling of chemicals

IATA: International Air Transport Association

IBC= Intermediate Bulk Container

IMDG International maritime Dangerous goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above- named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Isobutylene

Section 1. Identification

GHS product identifier : Isobutylene

Chemical name : 2-methylpropene

Other means of identification : 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene); 1, 1-Dimethylethylene; Isopropylidenemethylene; iso-Butene; i-Butene; 2-Methylpropylene; 2-Methyl-2-propene; 2-Methyl-1-propene

Product type : Gas.

Product use : Synthetic/Analytical chemistry.

Synonym : 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene); 1, 1-Dimethylethylene; Isopropylidenemethylene; iso-Butene; i-Butene; 2-Methylpropylene; 2-Methyl-2-propene; 2-Methyl-1-propene

SDS # : 001031

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

24-hour telephone : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE GASES - Category 1
GASES UNDER PRESSURE - Liquefied gas

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Extremely flammable gas.
May form explosive mixtures with air.
Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position. Approach suspected leak area with caution.

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response : Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

Storage : Protect from sunlight. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : 2-methylpropene

Other means of identification : 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene); 1, 1-Dimethylethylene; Isopropylidenemethylene; iso-Butene; i-Butene; 2-Methylpropylene; 2-Methyl-2-propene; 2-Methyl-1-propene

Product code : 001031

CAS number/other identifiers

CAS number : 115-11-7

Ingredient name	%	CAS number
Isobutylene	100	115-11-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Use only non-sparking tools. Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Isobutylene	**ACGIH TLV (United States, 3/2017).** TWA: 250 ppm 8 hours.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Odor : Characteristic.

Odor threshold : Not available.

pH : Not available.

Melting point : -140.7°C (-221.3°F)

Boiling point : -6.9°C (19.6°F)

Critical temperature : 144.75°C (292.6°F)

Flash point : Closed cup: -76.1°C (-105°F)

Evaporation rate : Not available.

Flammability (solid, gas) : Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and oxidizing materials.

Lower and upper explosive (flammable) limits : Lower: 1.8%
Upper: 9.6%

Vapor pressure : 24.3 (psig)

Vapor density : 1.94 (Air = 1)

Specific Volume (ft ^{3}/lb) : 6.6845

Gas Density (lb/ft ^{3}) : 0.1496 (25°C / 77 to °F)

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : 0.26 g/l

Partition coefficient: n-octanol/water : 2.34

Auto-ignition temperature : 465°C (869°F)

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

Molecular weight : 56.12 g/mole

Aerosol product

Heat of combustion : -45029034 J/kg

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Oxidizers

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isobutylene	LC50 Inhalation Vapor	Rat	550000 mg/m³	4 hours

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Section 11. Toxicological information

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Isobutylene	2.34	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Section 12. Ecological information

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1055	UN1055	UN1055	UN1055	UN1055
UN proper shipping name	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE
Transport hazard class(es)	2.1 	2.1 	2.1 	2.1 	2.1 
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Additional information

DOT Classification : **Limited quantity** Yes.
Quantity limitation Passenger aircraft/rail: Forbidden. Cargo aircraft: 150 kg.
Special provisions 19, T50

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).
Explosive Limit and Limited Quantity Index 0.125
ERAP Index 3000
Passenger Carrying Ship Index Forbidden
Passenger Carrying Road or Rail Index Forbidden
Special provisions 29

IATA : **Quantity limitation** Passenger and Cargo Aircraft: Forbidden. Cargo Aircraft Only: 150 kg.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

Clean Air Act (CAA) 112 regulated flammable substances: Isobutylene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : **Japan inventory (ENCS)**: This material is listed or exempted.
Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : This material is listed or exempted.

Philippines : This material is listed or exempted.

Republic of Korea : This material is listed or exempted.

Section 15. Regulatory information

Taiwan : This material is listed or exempted.

Thailand : Not determined.

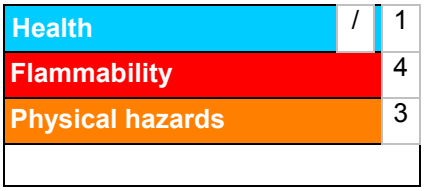
Turkey : Not determined.

United States : This material is listed or exempted.

Viet Nam : Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Liquefied gas	Expert judgment Expert judgment

History

Date of printing : 5/10/2018

Date of issue/Date of revision : 5/10/2018

Date of previous issue : 7/11/2016

Version : 0.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Version 4.10
Revision Date 04/22/2016
Print Date 05/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Sudan Blue II

Product Number : 306436
Brand : Sigma-Aldrich

CAS-No. : 17354-14-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : Solvent Blue 35

Formula : $C_{22}H_{26}N_2O_2$
Molecular weight : 350.45 g/mol
CAS-No. : 17354-14-2
EC-No. : 241-379-4

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: dark violet
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing	Melting point/range: 120 - 122 °C (248 - 252 °F)

	point	
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,4-Bis(butylamino)anthraquinone	17354-14-2	1989-08-11

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,4-Bis(butylamino)anthraquinone	17354-14-2	1989-08-11

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.10 Revision Date: 04/22/2016 Print Date: 05/01/2016

SAFETY DATA SHEET

Creation Date 08-Nov-2010 **Revision Date** 18-Jun-2015 **Revision Number** 2

1. Identification

Product Name **Fluoranthene**

Cat No. : **AC119170000; AC119170250; AC119171000; AC119175000**

Synonyms Benzo[j,k]fluorene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4

Label Elements

Signal Word
Warning

Hazard Statements
Harmful if swallowed



Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Fluoranthene	206-44-0	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Get medical attention.

Most important symptoms/effects No information available.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point 100 °C / 212 °F

Method - No information available

Autoignition Temperature No information available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO_2)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage

Handling Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Avoid dust formation.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Light green
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	109 - 111 °C / 228.2 - 231.8 °F
Boiling Point/Range	384 - 34 °C / 723.2 - 93.2 °F
Flash Point	100 °C / 212 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C16 H10
Molecular Weight	202.25

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fluoranthene	2 g/kg (Rat)	3180 mg/kg (Rabbit)	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Fluoranthene	206-44-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Fluoranthene	Not listed	Oncorhynchus mykiss: LC50=0.0077 mg/L 96h	Not listed	EC50: 0.78 mg/L 20h

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility .

Component	log Pow
Fluoranthene	5.33

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Fluoranthene - 206-44-0	U120	-

14. Transport information

DOT
- **UN-No** UN3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
- **Proper technical name** (Fluoranthene)
- **Hazard Class** 9
- **Packing Group** III

TDG
- **UN-No** UN3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
- **Hazard Class** 9
- **Packing Group** III

IATA
- **UN-No** UN3077
- **Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s
- **Hazard Class** 9
- **Packing Group** III

IMDG/IMO
- **UN-No** UN3077
- **Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s
- **Hazard Class** 9
- **Packing Group** III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Fluoranthene	X	-	X	205-912-4	-		-	X	X	X	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Fluoranthene	206-44-0	>95	1.0 0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Fluoranthene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Fluoranthene	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Fluoranthene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1B Toxic materials



16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date	08-Nov-2010
Revision Date	18-Jun-2015
Print Date	18-Jun-2015
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Fluorene**

Cat No. : **AC156130000; AC156130250; AC156131000; AC156135000**

Synonyms Diphenylenemethane

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
May form combustible dust concentrations in air

3. Composition / information on ingredients

Component	CAS-No	Weight %
Fluorene	86-73-7	98

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. Obtain medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point 151 °C / 303.8 °F
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Dust can form an explosive mixture in air. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products
None known
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not ingest.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	112 - 116 °C / 233.6 - 240.8 °F
Boiling Point/Range	298 °C / 568.4 °F @ 760 mmHg
Flash Point	151 °C / 303.8 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	13 hPa @ 146 °C
Vapor Density	Not applicable
Relative Density	1.200
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C13 H10
Molecular Weight	166.22

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	None under normal use conditions
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product
Component Information	

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Fluorene	86-73-7	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability Insoluble in water May persist
Bioaccumulation/ Accumulation No information available.

Mobility . Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Fluorene	4.18

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA
- **UN-No** 3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*
- **Hazard Class** 9
- **Packing Group** III

IMDG/IMO

UN-No	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Fluorene	X	X	-	201-695-5	-		X	X	X	X	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
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T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Fluorene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Fluorene	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Fluorene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class B4 Flammable solid



16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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End of SDS

Safety Data Sheet

Material Name: Fuel Oil No. 2

SDS No. 0088
EU/CLP GHS

Synonyms: #2 Heating Oil; 2 Oil; Off-road Diesel Fuel

* * * Section 1 - Product and Company Identification * * *

Manufacturer Information

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

Phone: 732-750-6000 Corporate EHS
Emergency # 800-424-9300 CHEMTREC
www.hess.com (Environment, Health, Safety Internet Website)

* * * Section 2 - Hazards Identification * * *

GHS Classification:

Flammable Liquids - Category 3
Acute Toxicity, Inhalation - Category 4
Skin Corrosion/Irritation – Category 2
Eye Damage/Irritation – Category 2
Carcinogenicity - Category 2
Specific Target Organ Toxicity (Single Exposure) – Category 3 (respiratory irritation, narcosis)
Aspiration Hazard – Category 1
Hazardous to the Aquatic Environment, Acute Hazard – Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statements

Flammable liquid and vapor.
Harmful if inhaled.
Causes skin irritation.
Causes eye irritation.
Suspected of causing cancer.
Suspected of causing genetic defects.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing fume/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wash hands and forearms thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid release to the environment.

Response

In case of fire: Use water spray, fog or foam.
If on skin (or hair): Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If exposed or concerned: Get medical advice/attention.
If swallowed: Immediately all a poison center or doctor/physician if you feel unwell. Do NOT induce vomiting.

Storage

Store in a well ventilated place.
Keep cool. Keep container tightly closed.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
68476-30-2	Fuel oil No. 2	100
91-20-3	Naphthalene	<0.1

A complex combination of hydrocarbons with carbon numbers in the range C9 and higher produced from the distillation of petroleum crude oil.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

First Aid: Skin

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops.

First Aid: Ingestion

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

First Aid: Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

Extinguishing Media

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

* * * Section 6 - Accidental Release Measures * * *

Recovery and Neutralization

Carefully contain and stop the source of the spill, if safe to do so.

Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal.

Emergency Measures

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Personal Precautions and Protective Equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental Precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Handle as a combustible liquid. Keep away from heat, sparks, excessive temperatures and open flame! No smoking or open flame in storage, use or handling areas. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when this product is loaded into tanks previously containing low flash point products (such as gasoline) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

Storage Procedures

Keep containers closed and clearly labeled. Use approved vented storage containers. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

Incompatibilities

Keep away from strong oxidizers; Fluorel ®

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

Fuel oil No. 2 (270-671-4)

ACGIH: 100 mg/m3 TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel)
Skin - potential significant contribution to overall exposure by the cutaneous route (listed under Diesel fuel)
Belgium: 100 mg/m3 TWA (as total hydrocarbon, aerosol and vapor)
Skin (listed under Gas oil)
Portugal: 100 mg/m3 TWA [VLE-MP] (aerosol and vapor, as total Hydrocarbons, listed under Fuel diesel)

Naphthalene (202-049-5)

ACGIH: 15 ppm STEL
10 ppm TWA
Skin - potential significant contribution to overall exposure by the cutaneous route
Austria: 10 ppm TWA [TMW]; 50 mg/m3 TWA [TMW]
skin notation
Belgium: 15 ppm STEL; 80 mg/m3 STEL
10 ppm TWA; 53 mg/m3 TWA
Skin
Denmark: 10 ppm TWA; 50 mg/m3 TWA
Finland: 2 ppm STEL; 10 mg/m3 STEL
1 ppm TWA; 5 mg/m3 TWA
France: 10 ppm TWA [VME]; 50 mg/m3 TWA [VME]
Germany: 0.1 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, inhalable fraction, exposure factor 1); 0.5 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, inhalable fraction, exposure factor 1)
Greece: 10 ppm TWA; 50 mg/m3 TWA
Ireland: 15 ppm STEL; 75 mg/m3 STEL
10 ppm TWA; 50 mg/m3 TWA
Netherlands: 80 mg/m3 STEL
50 mg/m3 TWA
Portugal: 10 ppm TWA [VLE-MP]
Spain: 15 ppm STEL [VLA-EC]; 80 mg/m3 STEL [VLA-EC]
10 ppm TWA [VLA-ED]; 53 mg/m3 TWA [VLA-ED]
skin - potential for cutaneous exposure
Sweden: 10 ppm LLV; 50 mg/m3 LLV
15 ppm STV; 80 mg/m3 STV

Engineering Measures

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

Personal Protective Equipment: Hands

Gloves constructed of nitrile, neoprene, or PVC are recommended.

Personal Protective Equipment: Eyes

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

Personal Protective Equipment: Skin and Body

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Red or reddish/orange colored (dyed)	**Odor:**	Mild, petroleum distillate odor
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	0.009 psia @ 70 °F (21 °C)	**Vapor Density:**	>1.0
Boiling Point:	340 to 700 °F (171 to 371 °C)	**Melting Point:**	ND
Solubility (H2O):	Negligible	**Specific Gravity:**	AP 0.823-0871
Evaporation Rate:	Slow; varies with conditions	**VOC:**	ND
Octanol/H2O Coeff.:	ND	**Flash Point:**	100 °F (38 °C) minimum
Flash Point Method:	PMCC	**Upper Flammability Limit (UFL):**	7.5
Lower Flammability Limit (LFL):	0.6	**Burning Rate:**	ND
Auto Ignition:	494°F (257°C)		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

Incompatible Products

Keep away from strong oxidizers; Fluorel ®

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

A: General Product Information

Harmful if swallowed.

B: Component Analysis - LD50/LC50

Fuel oil No. 2 (68476-30-2)

Oral LD50 Rat 12 g/kg; Dermal LD50 Rabbit 4720 µL/kg; Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 4.6 mg/L 4 h

Naphthalene (91-20-3)

Inhalation LC50 Rat >340 mg/m3 1 h; Oral LD50 Rat 490 mg/kg; Dermal LD50 Rat >2500 mg/kg; Dermal LD50 Rabbit >20 g/kg

Product Mixture

Oral LD50 Rat 14.5 ml/kg; Dermal LD50 Rabbit >5 mL/kg; Guinea Pig Sensitization: negative; Primary dermal irritation: moderately irritating (Draize mean irritation score - 3.98 rabbits); Draize eye irritation: mildly irritating (Draize score, 48 hours, unwashed - 2.0 rabbits)

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact with eyes may cause mild irritation.

Potential Health Effects: Ingestion

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

Potential Health Effects: Inhalation

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects. Material of similar composition has been positive in a mutagenicity study.

Carcinogenicity

A: General Product Information

Suspected of causing cancer.

Dermal carcinogenicity: positive - mice

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

This product is similar to Diesel Fuel. IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A) and NIOSH regards it as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

B: Component Carcinogenicity

Fuel oil No. 2 (68476-30-2)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Diesel fuel)

Naphthalene (91-20-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)
IARC: Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ general toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ general toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

Very toxic to aquatic life with long lasting effects. Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Fuel oil No. 2 (68476-30-2)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	35 mg/L [flow-through]	

Naphthalene (91-20-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	5.74-6.44 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	1.6 mg/L [flow-through]	

96 Hr LC50 Oncorhynchus mykiss	0.91-2.82 mg/L [static]
96 Hr LC50 Pimephales promelas	1.99 mg/L [static]
96 Hr LC50 Lepomis macrochirus	31.0265 mg/L [static]
72 Hr EC50 Skeletonema costatum	0.4 mg/L
48 Hr LC50 Daphnia magna	2.16 mg/L
48 Hr EC50 Daphnia magna	1.96 mg/L [Flow through]
48 Hr EC50 Daphnia magna	1.09 - 3.4 mg/L [Static]

Persistence/Degradability
No information available.

Bioaccumulation
No information available.

Mobility in Soil
No information available.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 14 - Transportation Information * * *

IATA Information
Shipping Name: Heating oil, light
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

ICAO Information
Shipping Name: Heating oil, light
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

IMDG Information
Shipping Name: Heating oil, light
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

* * * Section 15 - Regulatory Information * * *

Regulatory Information

Component Analysis – Inventory

Component/CAS	EC #	EEC	CAN	TSCA
Fuel oil No. 2 68476-30-2	270-671-4	EINECS	DSL	Yes
Naphthalene 91-20-3	202-049-5	EINECS	DSL	Yes

* * * Section 16 - Other Information * * *

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

None

Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet

SAFETY DATA SHEET

1. Identification

Product identifier **Gasoline Range Organics #1 - GRO/DRO**

Other means of identification

Item M-TPH3M4

Recommended use For Laboratory Use Only

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Chem Service, Inc.

Address 660 Tower Lane
West Chester, PA 19380
United States

Telephone Toll Free 800-452-9994
Direct 610-692-3026

Website www.chemservice.com

E-mail info@chemservice.com

Emergency phone number Chemtrec US 800-424-9300
Chemtrec outside US +1 703-527-3887

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, oral	Category 3
	Acute toxicity, dermal	Category 3
	Acute toxicity, inhalation	Category 3
	Serious eye damage/eye irritation	Category 2A
	Germ cell mutagenicity	Category 1
	Carcinogenicity	Category 1A
	Reproductive toxicity (the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 1
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Toxic if inhaled. May cause genetic defects. May cause cancer. Suspected of damaging the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor. Specific treatment (see this label). Rinse mouth. If eye irritation persists: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	0.1% of the mixture consists of component(s) of unknown acute dermal toxicity. 0.1% of the mixture consists of component(s) of unknown acute inhalation toxicity. 99.2% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.1% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methanol		67-56-1	>99
1,2,4-Trimethylbenzene		95-63-6	0.1
3-Methylpentane		96-14-0	0.1
Benzene		71-43-2	0.1
Ethylbenzene		100-41-4	0.1
Isooctane	2,2,4-Trimethylpentane	540-84-1	0.1
m-Xylene		108-38-3	0.1
Naphthalene		91-20-3	0.1
o-Xylene		95-47-6	0.1
Toluene		108-88-3	0.1

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information	Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Avoid contact with clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Benzene (CAS 71-43-2)	STEL	5 ppm
	TWA	1 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3
		100 ppm
Isooctane (CAS 540-84-1)	PEL	2350 mg/m3
		500 ppm
Methanol (CAS 67-56-1)	PEL	260 mg/m3
		200 ppm
m-Xylene (CAS 108-38-3)	PEL	435 mg/m3
		100 ppm
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3
		10 ppm
o-Xylene (CAS 95-47-6)	PEL	435 mg/m3
		100 ppm

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Benzene (CAS 71-43-2)	Ceiling	25 ppm
	TWA	10 ppm
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm
3-Methylpentane (CAS 96-14-0)	STEL	1000 ppm
	TWA	500 ppm
Benzene (CAS 71-43-2)	STEL	2.5 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
	TWA	0.5 ppm
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
m-Xylene (CAS 108-38-3)	STEL	150 ppm
	TWA	100 ppm
Naphthalene (CAS 91-20-3)	STEL	15 ppm
	TWA	10 ppm
o-Xylene (CAS 95-47-6)	STEL	150 ppm
	TWA	100 ppm
Toluene (CAS 108-88-3)	TWA	20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3
		25 ppm
3-Methylpentane (CAS 96-14-0)	Ceiling	1800 mg/m3
		510 ppm
	TWA	350 mg/m3
		100 ppm
Benzene (CAS 71-43-2)	STEL	1 ppm
	TWA	0.1 ppm
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3
		125 ppm
	TWA	435 mg/m3
		100 ppm
Isooctane (CAS 540-84-1)	Ceiling	1800 mg/m3
		385 ppm
	TWA	350 mg/m3
		75 ppm
Methanol (CAS 67-56-1)	STEL	325 mg/m3
		250 ppm
	TWA	260 mg/m3
		200 ppm
m-Xylene (CAS 108-38-3)	STEL	655 mg/m3
		150 ppm
	TWA	435 mg/m3
		100 ppm
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3
		15 ppm
	TWA	50 mg/m3
		10 ppm
o-Xylene (CAS 95-47-6)	STEL	655 mg/m3
		150 ppm
	TWA	435 mg/m3
		100 ppm
Toluene (CAS 108-88-3)	STEL	560 mg/m3
		150 ppm
	TWA	375 mg/m3
		100 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Benzene (CAS 71-43-2)	25 µg/g	S-Phenylmercapturic acid	Creatinine in urine	*

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	0.7 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
m-Xylene (CAS 108-38-3)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
o-Xylene (CAS 95-47-6)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Benzene (CAS 71-43-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Methanol (CAS 67-56-1)	Skin designation applies.
Toluene (CAS 108-88-3)	Skin designation applies.

US - Tennesse OELs: Skin designation

Methanol (CAS 67-56-1)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Methanol (CAS 67-56-1)	Can be absorbed through the skin.

Appropriate engineering controls Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves.

Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid

Color Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point -144.04 °F (-97.8 °C) estimated

Initial boiling point and boiling range	148.46 °F (64.7 °C) estimated
Flash point	53.6 °F (12.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	7.3 % estimated
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	169.3 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	867.2 °F (464 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.787167 g/cm3 estimated
Flammability class	Flammable IB estimated
Percent volatile	99.6 % estimated
Specific gravity	0.79 estimated
VOC (Weight %)	99.6 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Toxic if swallowed.
Inhalation	Toxic by inhalation. May cause damage to organs by inhalation.
Skin contact	Toxic in contact with skin.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity	Toxic by inhalation. Toxic if swallowed. Toxic in contact with skin. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	**Species**	**Test Results**
1,2,4-Trimethylbenzene (CAS 95-63-6)		
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg

Components	Species	Test Results
Inhalation		
LC50	Mouse, Rat	2000 - 9833 mg/m3, 12 Hours
	Rat	> 2000 ppm, 48 Hours
		10200 mg/m3, 4 Hours
Oral		
LD50	Rat	3280 mg/kg
3-Methylpentane (CAS 96-14-0)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Mouse	73.3 mg/l, 2 Hours
	Rat	> 5.6 mg/l, 4 Hours
Oral		
LD50	Rat	> 3990 mg/kg
Benzene (CAS 71-43-2)		
Acute		
Inhalation		
LC50	Mouse	9980 ppm
		9980 ppm, 7 Hours
	Rat	43767 mg/m3, 4 Hours
		13700 ppm, 4 Hours
		10000 ppm, 7 Hours
Oral		
LD50	Mouse	4700 mg/kg
	Rat	690 - 1230 mg/kg
Other		
LD50	Mouse	340 mg/kg
		0.28 ml/kg
	Rat	2.89 mg/kg
Ethylbenzene (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	17800 mg/kg
		17.8 ml/kg
Inhalation		
LC50	Mouse	> 8000 ppm, 20 Minutes
		35.5 mg/l
	Rat	4000 ppm
		55 mg/l
Oral		
LD50	Rat	3500 mg/kg
		3.5 g/kg
Other		
LD50	Mouse	2272 mg/kg
Isooctane (CAS 540-84-1)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 33.52 mg/l, 4 Hours

Components	Species	Test Results
Oral		
LD50	Rat	> 5000 mg/kg
Methanol (CAS 67-56-1)		
Acute		
Dermal		
LD50	Rabbit	15800 mg/kg
Inhalation		
LC50	Mouse	79.43 mg/l, 134 Minutes
	Rat	> 115.9 mg/l, 4 Hours
		64000 ppm, 4 Hours
		82.1 mg/l, 6 Hours
Oral		
LD50	Monkey	6000 mg/kg
	Mouse	7300 mg/kg
	Pig	> 5000 mg/kg
	Rabbit	14.4 g/kg
	Rat	5628 mg/kg
Other		
LD50	Guinea pig	3556 mg/kg
	Hamster	8555 mg/kg
	Mouse	4100 mg/kg
	Rabbit	1826 mg/kg
	Rat	2131 mg/kg
m-Xylene (CAS 108-38-3)		
Acute		
Dermal		
LD50	Rabbit	12100 mg/kg
Inhalation		
LC50	Mouse	5267 ppm, 6 Hours
	Rat	6700 ppm, 4 Hours
		5984 ppm, 6 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	4300 mg/kg
Naphthalene (CAS 91-20-3)		
Acute		
Dermal		
LD50	Rabbit	> 2 g/kg
	Rat	> 2500 mg/kg
Inhalation		
LC50	Rat	> 78 ppm, 4 Hours
		> 0.4 mg/l, 4 Hours
Oral		
LD50	Guinea pig	1200 mg/kg
	Mouse	533 mg/kg
	Rat	490 mg/kg
Other		
LD50	Mouse	100 mg/kg
o-Xylene (CAS 95-47-6)		
Acute		
Dermal		
LD50	Rabbit	> 5000 ml/kg

Components	Species	Test Results
		> 43 g/kg
Inhalation		
LC50	Mouse	4595 ppm, 6 Hours
	Rat	6350 ppm, 4 Hours
		4330 ppm, 6 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	3523 mg/kg
		10 ml/kg
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
		14.1 ml/kg
Inhalation		
LC50	Mouse	6405 - 7436 ppm, 6 Hours
		5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
		5879 - 6281 ppm, 6 Hours
		12.5 - 28.8 mg/l, 4 Hours
Oral		
LD50	Rat	2.6 g/kg
Other		
LD50	Mouse	59 mg/kg
	Rat	1332 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene (CAS 71-43-2)	1 Carcinogenic to humans.
Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
m-Xylene (CAS 108-38-3)	3 Not classifiable as to carcinogenicity to humans.
Naphthalene (CAS 91-20-3)	2B Possibly carcinogenic to humans.
o-Xylene (CAS 95-47-6)	3 Not classifiable as to carcinogenicity to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Benzene (CAS 71-43-2)	Known To Be Human Carcinogen.
Naphthalene (CAS 91-20-3)	Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2)	Cancer

Reproductive toxicity Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure Causes damage to organs.

Specific target organ toxicity - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components		Species	Test Results
1,2,4-Trimethylbenzene (CAS 95-63-6)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	7.19 - 8.28 mg/l, 96 hours
Benzene (CAS 71-43-2)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	8.76 - 15.6 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	7.2 - 11.7 mg/l, 96 hours
Ethylbenzene (CAS 100-41-4)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
Methanol (CAS 67-56-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
m-Xylene (CAS 108-38-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	2.81 - 5 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.4 mg/l, 96 hours
Naphthalene (CAS 91-20-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	1.11 - 1.68 mg/l, 96 hours
o-Xylene (CAS 95-47-6)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.78 - 2.51 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	5.59 - 11.6 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

3-Methylpentane	3.6
Benzene	2.13
Ethylbenzene	3.15
Isooctane	5.18
Methanol	-0.77
m-Xylene	3.2
Naphthalene	3.3
o-Xylene	3.12
Toluene	2.73

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste U List: Reference

Benzene (CAS 71-43-2)	U019
Methanol (CAS 67-56-1)	U154
m-Xylene (CAS 108-38-3)	U239
Naphthalene (CAS 91-20-3)	U165
o-Xylene (CAS 95-47-6)	U239
Toluene (CAS 108-88-3)	U220

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number	UN1230
UN proper shipping name	Methanol, solution
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T7, TP2
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242

IATA

UN number	UN1230
UN proper shipping name	Methanol solution
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1(PGI, II)
Packing group	II
Environmental hazards	No.
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

UN number	UN1230
UN proper shipping name	METHANOL SOLUTION
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1(PGI, II)
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

DOT



IATA; IMDG



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

3-Methylpentane (CAS 96-14-0)	Listed.
Benzene (CAS 71-43-2)	Listed.
Ethylbenzene (CAS 100-41-4)	Listed.
Isooctane (CAS 540-84-1)	Listed.
Methanol (CAS 67-56-1)	Listed.
m-Xylene (CAS 108-38-3)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
o-Xylene (CAS 95-47-6)	Listed.
Toluene (CAS 108-88-3)	Listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2)	Cancer Central nervous system Blood Aspiration Skin Eye respiratory tract irritation Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Methanol	67-56-1	>99
Benzene	71-43-2	0.1
Ethylbenzene	100-41-4	0.1
Naphthalene	91-20-3	0.1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Benzene (CAS 71-43-2)
Ethylbenzene (CAS 100-41-4)
Isooctane (CAS 540-84-1)
Methanol (CAS 67-56-1)
m-Xylene (CAS 108-38-3)
Naphthalene (CAS 91-20-3)
o-Xylene (CAS 95-47-6)
Toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Toluene (CAS 108-88-3)	6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3)	35 %WV

DEA Exempt Chemical Mixtures Code Number

Toluene (CAS 108-88-3)	594

US state regulations

US. Massachusetts RTK - Substance List

1,2,4-Trimethylbenzene (CAS 95-63-6)
3-Methylpentane (CAS 96-14-0)
Benzene (CAS 71-43-2)
Ethylbenzene (CAS 100-41-4)
Isooctane (CAS 540-84-1)
Methanol (CAS 67-56-1)
m-Xylene (CAS 108-38-3)
Naphthalene (CAS 91-20-3)
o-Xylene (CAS 95-47-6)
Toluene (CAS 108-88-3)

US. New Jersey Worker and Community Right-to-Know Act

1,2,4-Trimethylbenzene (CAS 95-63-6)	500 LBS
Benzene (CAS 71-43-2)	500 LBS
Ethylbenzene (CAS 100-41-4)	500 LBS
Methanol (CAS 67-56-1)	500 LBS
m-Xylene (CAS 108-38-3)	500 LBS
Naphthalene (CAS 91-20-3)	500 LBS
o-Xylene (CAS 95-47-6)	500 LBS
Toluene (CAS 108-88-3)	500 LBS

US. Pennsylvania RTK - Hazardous Substances

1,2,4-Trimethylbenzene (CAS 95-63-6)
3-Methylpentane (CAS 96-14-0)
Benzene (CAS 71-43-2)
Ethylbenzene (CAS 100-41-4)
Methanol (CAS 67-56-1)
m-Xylene (CAS 108-38-3)
Naphthalene (CAS 91-20-3)
o-Xylene (CAS 95-47-6)
Toluene (CAS 108-88-3)

US. Rhode Island RTK

1,2,4-Trimethylbenzene (CAS 95-63-6)
Benzene (CAS 71-43-2)
Ethylbenzene (CAS 100-41-4)
Isooctane (CAS 540-84-1)
Methanol (CAS 67-56-1)
m-Xylene (CAS 108-38-3)

Naphthalene (CAS 91-20-3)
o-Xylene (CAS 95-47-6)
Toluene (CAS 108-88-3)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2)	Listed: February 27, 1987
Ethylbenzene (CAS 100-41-4)	Listed: June 11, 2004
Naphthalene (CAS 91-20-3)	Listed: April 19, 2002

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2)	Listed: December 26, 1997
Methanol (CAS 67-56-1)	Listed: March 16, 2012
Toluene (CAS 108-88-3)	Listed: January 1, 1991

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3)	Listed: August 7, 2009

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2)	Listed: December 26, 1997

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 10-18-2014

Version # 01

NFPA ratings Health: 2
Flammability: 3
Instability: 0

Disclaimer

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.

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This product is furnished FOR LABORATORY USE ONLY.

SAFETY DATA SHEET

SDS ID NO.: 0127MAR019
Revision Date: 06/01/2016

1. IDENTIFICATION

Product Name: Marathon Petroleum Gasoline - All Grades

Synonym: Gasoline; Regular Unleaded Gasoline; Conventional Regular Unleaded Gasoline; Mid Grade Unleaded Gasoline; Conventional Mid Grade Unleaded Gasoline; Premium Unleaded Gasoline; Conventional Premium Unleaded Gasoline; Sub-Octane Gasoline; Regular RBOB; Super RBOB; Premium RBOB; RBOB; Reformulated Blend Stock For Oxygenated Blending; 84 Octane Gasoline; CBOB; Premium CBOB; Conventional Blend Stock for Oxygenate Blending; Recreational Gasoline; Recreational Gasoline; Recreational Unleaded Gasoline; 89 Recreational Gasoline; Brand 89 Recreational Gasoline; 7.0 Max RVP 89 Recreational Gasoline; BR 7.0 Max RVP 89 Recreational Gasoline; 90 Recreational Gasoline; 90 Marina Gasoline; Brand 91 Recreational Gasoline; 91 Recreational Gasoline; 91 Marina Gasoline; 90 Octane Midgrade Gasoline with No Ethanol; 0125MAR019; 0126MAR019; 0134MAR019; 0313MAR019; 0314MAR019

Chemical Family: Complex Hydrocarbon Substance

Recommended Use: Fuel.
Restrictions on Use: All others.

Manufacturer, Importer, or Responsible Party Name and Address:

MARATHON PETROLEUM COMPANY LP
539 South Main Street
Findlay, OH 45840

SDS information: 1-419-421-3070

Emergency Telephone: 1-877-627-5463

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 1
Skin corrosion/irritation	Category 2
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

Hazards Not Otherwise Classified (HNOC)

Static accumulating flammable liquid

Label elements

EMERGENCY OVERVIEW

Danger

EXTREMELY FLAMMABLE LIQUID AND VAPOR
May accumulate electrostatic charge and ignite or explode
May be fatal if swallowed and enters airways
Causes skin irritation
May cause respiratory irritation
May cause drowsiness or dizziness
May cause genetic defects
May cause cancer
Suspected of damaging fertility or the unborn child
Toxic to aquatic life with long lasting effects



Appearance Clear yellow liquid **Physical State** Liquid **Odor** Hydrocarbon

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools.
Take precautionary measures against static discharge
Avoid breathing mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Wash hands and any possibly exposed skin thoroughly after handling
Avoid release to the environment

Precautionary Statements - Response
IF exposed or concerned: Get medical attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation occurs: Get medical attention
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell
IF SWALLOWED: Immediately call a POISON CENTER or doctor
Do NOT induce vomiting
In case of fire: Use water spray, fog or regular foam for extinction
Collect spillage

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container at an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Gasoline is a complex combination of hydrocarbons consisting of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having molecular chains ranging in length from four to ten carbons. May contain small amounts of dye and other additives (>0.02%) which are not considered hazardous at the concentrations used.

Composition Information:

Name	CAS Number	% Concentration
Gasoline	86290-81-5	100
Heptane (mixed isomers)	142-82-5	2.5-26
Pentane (mixed isomers)	78-78-4	6.5-19
Butane (mixed isomers)	106-97-8	0.5-14
Hexane Isomers (other than n-Hexane)	107-83-5	2-12
Toluene	108-88-3	3-9.5
Xylene (mixed isomers)	1330-20-7	3.5-9.5
n-Hexane	110-54-3	0.1-4.5
Cumene	98-82-8	0-4
1,2,4 Trimethylbenzene	95-63-6	1-4
Ethylbenzene	100-41-4	0.5-2.5
Benzene	71-43-2	0.1-1.5
Cyclohexane	110-82-7	0-1.5
Octane	111-65-9	0-1.5
1,2,3-trimethylbenzene	526-73-8	0-1
Naphthalene	91-20-3	0.1-0.5

All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

First Aid Measures

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation: Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear, give oxygen and continue to monitor. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). Keep affected person warm and at rest. If symptoms occur get medical attention.

Skin Contact: Immediately wash exposed skin with plenty of soap and water while removing contaminated clothing and shoes. May be absorbed through the skin in harmful amounts. Get medical attention if irritation persists. Any injection injury from high pressure equipment should be evaluated immediately by a physician as potentially serious (See NOTES TO PHYSICIAN).

Place contaminated clothing in closed container until cleaned or discarded. If clothing is to be laundered, inform the person performing the operation of contaminant's hazardous properties. Destroy contaminated, non-chemical resistant footwear.

Eye Contact: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts while flushing. Get medical attention if irritation persists.

Ingestion: Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

Most important signs and symptoms, both short-term and delayed with overexposure

Adverse Effects: Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

Indication of any immediate medical attention and special treatment needed

Notes To Physician: INHALATION: This material (or a component) sensitizes the myocardium to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administration of sympathomimetic drugs should be avoided.

SKIN: Leaks or accidents involving high-pressure equipment may inject a stream of material through the skin and initially produce an injury that may not appear serious. Only a small puncture wound may appear on the skin surface but, without proper treatment and depending on the nature, original pressure, volume, and location of the injected material, can compromise blood supply to an affected body part. Prompt surgical debridement of the wound may be necessary to prevent irreversible loss of function and/or the affected body part. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES.

INGESTION: This material represents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Unsuitable extinguishing media
Do not use straight water streams to avoid spreading fire.

Specific hazards arising from the chemical
This product has been determined to be an extremely flammable liquid per the OSHA Hazard Communication Standard and should be handled accordingly. May accumulate electrostatic charge and ignite or explode. Vapors may travel along the ground or be moved by ventilation and ignited by many sources such as pilot lights, sparks, electric motors, static discharge, or other ignition sources at locations distant from material handling. Flashback can occur along vapor trail. For additional fire related information, see NFPA 30 or the Emergency Response Guidebook 128.

Hazardous combustion products
Smoke, carbon monoxide, and other products of incomplete combustion.

Explosion data
Sensitivity to Mechanical Impact No.
Sensitivity to Static Discharge Yes.

Special protective equipment and precautions for firefighters
Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water may be ineffective in extinguishing low flash point fires, but can be used to cool exposed surfaces. Avoid excessive water spray application. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Keep run-off water out of sewers and water sources.

Additional firefighting tactics
FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after the fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles: if this is impossible, withdraw from area and let fire burn.

EVACUATION: Consider initial downwind evacuation for at least 1000 feet. If tank, rail car or tank truck is involved in a fire, ISOLATE for 5280 feet (1 mile) in all directions; also, consider initial evacuation of 5280 feet (1 mile) in all directions.

NFPA	Health 1	Flammability 3	Instability 0	Special Hazard -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all ignition sources.
Protective equipment:	Use personal protection measures as recommended in Section 8.
Emergency procedures:	Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Notify local health and pollution control agencies, if appropriate.
Environmental precautions:	Avoid release to the environment. Avoid subsoil penetration. Ethanol in gasoline phase seperates in contact with water. Monitor downstream for dissolved ethanol or other appropriate indicators.
Methods and materials for containment:	Contain liquid with sand or soil. Prevent spilled material from entering storm drains, sewers, and open waterways.
Methods and materials for cleaning up:	Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers. When recovering free liquids ensure all equipment is grounded and bonded. Use only non-sparking tools.

7. HANDLING AND STORAGE

Safe Handling Precautions:

NEVER SIPHON THIS PRODUCT BY MOUTH. Use appropriate grounding and bonding practices. Static accumulating flammable liquid. Bonding and grounding may be insufficient to eliminate the hazard from static electricity. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Vapors may travel along the ground or be moved by ventilation. Flashback may occur along vapor trails. No smoking. Use only non-sparking tools. Avoid contact with skin, eyes and clothing. Avoid breathing fumes, gas, or vapors. Use only with adequate ventilation. Avoid repeated and prolonged skin contact. Use personal protection measures as recommended in Section 8. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA and consistent state and local requirements.

Hydrocarbons are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering, pumping at high flow rates or loading and transfer operations. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Sudden release of hot organic chemical vapors or mists from process equipment operating under elevated temperature and pressure, or sudden ingress of air into vacuum equipment may result in ignition of vapors or mists without the presence of obvious ignition sources. Nozzle spouts must be kept in contact with the containers or tank during the entire filling operation.

Portable containers should never be filled while in or on a motor vehicle or marine craft. Containers should be placed on the ground. Static electric discharge can ignite fuel vapors when filling non-grounded containers or vehicles on trailers. The nozzle spout must be kept in contact with the container before and during the entire filling operation. Use only approved containers.

A buildup of static electricity can occur upon re-entry into a vehicle during fueling especially in cold or dry climate conditions. The charge is generated by the action of dissimilar fabrics (i.e., clothing and upholstery) rubbing across each other as a person enters/exits the vehicle. A flash fire can result from this discharge if sufficient flammable vapors are present. Therefore, do not get back in your vehicle while refueling.

Cellular phones and other electronic devices may have the potential to emit electrical charges (sparks). Sparks in potentially explosive atmospheres (including fueling areas such as gas stations) could cause an explosion if sufficient flammable vapors are present. Therefore, turn off cellular phones and other electronic devices when working in potentially explosive atmospheres or keep devices inside your vehicle during refueling.

High-pressure injection of any material through the skin is a serious medical emergency even though the small entrance wound at the injection site may not initially appear serious. These injection injuries can occur from high-pressure equipment such as paint spray or grease or guns, fuel injectors, or pinhole leaks in hoses or hydraulic lines and should all be considered serious. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES (See First Aid Section 4).

Storage Conditions:

Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area. Do not store near an open flame, heat or other sources of ignition.

Incompatible Materials

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Gasoline 86290-81-5	300 ppm TWA 500 ppm STEL	-	300 ppm TWA 900 mg/m^3 TWA 500 ppm STEL 1500 mg/m^3 STEL	-

Heptane (mixed isomers) 142-82-5	400 ppm TWA 500 ppm STEL	TWA: 500 ppm TWA: 2000 mg/m³	400 ppm TWA 1600 mg/m³ TWA 500 ppm STEL 2000 mg/m³ STEL	750 ppm
Pentane (mixed isomers) 78-78-4	1000 ppm TWA	-	-	-
Butane (mixed isomers) 106-97-8	1000 ppm STEL	-	800 ppm TWA 1900 mg/m³ TWA	-
Hexane Isomers (other than n-Hexane) 107-83-5	500 ppm TWA 1000 ppm STEL	-	500 ppm TWA 1800 mg/m³ TWA 1000 ppm STEL 3600 mg/m³ STEL	-
Toluene 108-88-3	20 ppm TWA	TWA: 200 ppm Ceiling: 300 ppm	100 ppm TWA 375 mg/m³ TWA 150 ppm STEL 560 mg/m³ STEL	500 ppm
Xylene (mixed isomers) 1330-20-7	100 ppm TWA 150 ppm STEL	TWA: 100 ppm TWA: 435 mg/m³	100 ppm TWA 435 mg/m³ TWA 150 ppm STEL 655 mg/m³ STEL	900 ppm
n-Hexane 110-54-3	50 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 500 ppm TWA: 1800 mg/m³	50 ppm TWA 180 mg/m³ TWA	1100 ppm
Cumene 98-82-8	50 ppm TWA	TWA: 50 ppm TWA: 245 mg/m³ Skin	50 ppm TWA 245 mg/m³ TWA Limit applies to skin	900 ppm
1,2,4 Trimethylbenzene 95-63-6	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Ethylbenzene 100-41-4	20 ppm TWA	TWA: 100 ppm TWA: 435 mg/m³	100 ppm TWA 435 mg/m³ TWA 125 ppm STEL 545 mg/m³ STEL	800 ppm
Benzene 71-43-2	0.5 ppm TWA 2.5 ppm STEL Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm (applies to industry segments exempt from the benzene standard) TWA: 1 ppm STEL: 5 ppm (see 29 CFR 1910.1028)	25 ppm Ceiling 1 ppm TWA 5 ppm STEL	500 ppm
Cyclohexane 110-82-7	100 ppm TWA	TWA: 300 ppm TWA: 1050 mg/m³	300 ppm TWA 1050 mg/m³ TWA	1300 ppm
Octane 111-65-9	300 ppm TWA	TWA: 500 ppm TWA: 2350 mg/m³	300 ppm TWA 1450 mg/m³ TWA 375 ppm STEL 1800 mg/m³ STEL	1000 ppm
1,2,3-trimethylbenzene 526-73-8	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Naphthalene 91-20-3	10 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm TWA: 50 mg/m³	10 ppm TWA 50 mg/m³ TWA 15 ppm STEL 75 mg/m³ STEL	250 ppm

Notes: The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of those exposure limits were vacated in 1992.

Engineering measures: Local or general exhaust required in an enclosed area or when there is inadequate ventilation. Use mechanical ventilation equipment that is explosion-proof.

Personal protective equipment

Eye protection:	Use goggles or face-shield if the potential for splashing exists.
Skin and body protection:	Use nitrile rubber, Viton® or PVA gloves for repeated or prolonged skin exposure. Glove suitability is based on workplace conditions and usage. Contact the glove manufacturer for specific advice on glove selection and breakthrough times.
Respiratory protection:	Use a NIOSH approved organic vapor chemical cartridge or supplied air respirators when there is the potential for airborne exposures to exceed permissible exposure limits or if excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire fighting.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear yellow liquid
Color	Yellow
Odor	Hydrocarbon
Odor Threshold	No data available.

Property	**Values (Method)**
Melting Point / Freezing Point	No data available.
Initial Boiling Point / Boiling Range	24-210 °C / 75-410 °F (ASTM D86)
Flash Point	-43 °C / -45 °F
Evaporation Rate	No data available.
Flammability (solid, gas)	Not applicable.
Flammability Limit in Air (%):	
Upper Flammability Limit:	7.6
Lower Flammability Limit:	1.4
Explosion limits:	No data available.
Vapor Pressure	5.5-15 psi (ASTM D4814)
Vapor Density	3-4
Specific Gravity / Relative Density	0.70-0.76
Water Solubility	No data available.
Solubility in other solvents	No data available.
Partition Coefficient	2.13-4.5
Decomposition temperature	No data available.
pH:	Not applicable
Autoignition Temperature	280 °C / 536 °F
Kinematic Viscosity	No data available.
Dynamic Viscosity	No data available.
Explosive Properties	No data available.
VOC Content (%)	100%
Density	No data available.
Bulk Density	Not applicable.

10. STABILITY AND REACTIVITY

Reactivity	The product is non-reactive under normal conditions.
Chemical stability	The material is stable at 70°F, 760 mmHg pressure.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Will not occur.

Conditions to avoid Excessive heat, sources of ignition, open flame.

Incompatible Materials Strong oxidizing agents.

Hazardous decomposition products None known under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Potential short-term adverse effects from overexposures

Inhalation May cause irritation of respiratory tract. May cause drowsiness or dizziness. Breathing high concentrations of this material in a confined space or by intentional abuse can cause irregular heartbeats which can cause death.

Eye contact Exposure to vapor or contact with liquid may cause mild eye irritation, including tearing, stinging, and redness.

Skin contact Causes skin irritation. Effects may become more serious with repeated or prolonged contact. May be absorbed through the skin in harmful amounts.

Ingestion May be fatal if swallowed or vomited and enters airways. May cause irritation of the mouth, throat and gastrointestinal tract.

Acute toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Gasoline 86290-81-5	14000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Heptane (mixed isomers) 142-82-5	-	3000 mg/kg (Rabbit)	103 g/m³ (Rat) 4 h
Pentane (mixed isomers) 78-78-4	-	-	450 mg/L (Mouse) 2 h
Butane (mixed isomers) 106-97-8	-	-	658 mg/L (Rat) 4 h
Hexane Isomers (other than n-Hexane) 107-83-5	> 5000 mg/kg (Rat)	-	-
Toluene 108-88-3	> 2000 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylene (mixed isomers) 1330-20-7	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.04 mg/L (Rat) 4 h
n-Hexane 110-54-3	15000 mg/kg (Rat)	3000 mg/kg (Rabbit)	48000 ppm (Rat) 4 h
Cumene 98-82-8	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 20 mg/L (Rat) 6 h
1,2,4 Trimethylbenzene 95-63-6	3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	18,000 mg/m³ (Rat) 4 h
Ethylbenzene 100-41-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h
Benzene 71-43-2	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 20 mg/l (Rat) 4 h
Cyclohexane 110-82-7	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	13.9 mg/L (Rat) 4 h
Octane 111-65-9	-	-	118 g/m³ (Rat) 4 h
1,2,3-trimethylbenzene 526-73-8	-	-	-
Naphthalene 91-20-3	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m³ (Rat) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

NAPHTHAS: In a large epidemiological study on over 15,000 employees at several petroleum refineries and amongst residents located near these refineries, no increased risk of kidney cancer was observed in association with gasoline exposures (a similar material). In a similar study, no increased risk of kidney cancer was observed among petroleum refinery workers, but there was a slight trend in the incidence of kidney cancers among service station employees, especially after a 30-year latency period. Altered mental state, drowsiness, peripheral motor neuropathy, irreversible brain damage (so-called Petrol Sniffer's Encephalopathy), delirium, seizures, and sudden death have been reported from repeated overexposure to some hydrocarbon solvents, naphthas, and gasoline.

ISOPARAFFINS: Studies in laboratory animals have shown that long-term exposure to similar materials (isoparaffins) can cause kidney damage and kidney cancer in male laboratory rats. However, in-depth research indicates that these findings are unique to the male rat, and that these effects are not relevant to humans.

C9 AROMATIC HYDROCARBONS: A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats. Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm.

PENTANES: Studies of pentane isomers in laboratory animals indicate exposure to extremely high levels (roughly 10 vol.%) may induce cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

BUTANES: Studies in laboratory animals indicate exposure to extremely high levels of butanes (1-10 or higher vol.% in air) may cause cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

TOLUENE: Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Abuse of toluene at high concentrations (e.g., glue sniffing and solvent abuse) has been associated with adverse effects on the liver, kidney and nervous system, and can cause CNS depression, cardiac arrhythmias, and death. Studies of workers indicate longterm exposure may be related to impaired color vision and hearing. Some studies of workers suggest longterm exposure may be related to neurobehavioral and cognitive changes. Some of these effects have been observed in laboratory animals following repeated exposure to high levels of toluene. Several studies of workers suggest longterm exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals have been largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure. Studies of workers indicate long-term exposure may be related to effects on the liver, kidney and blood, but these appear to be limited to changes in serum enzymes and decreased leukocyte counts. Adverse effects on the liver, kidney, thymus and nervous system were observed in animal studies following very high levels of exposure. The relevance of these findings to humans is not clear at this time.

XYLENES, ALL ISOMERS: Overexposure to xylene may cause upper respiratory tract irritation, headache, cyanosis, blood serum changes, nervous system damage and narcosis. Effects may be increased by the use of alcoholic beverages. Evidence of liver and kidney impairment were reported in workers recovering from a gross overexposure. Effects from Prolonged or Repeated Exposure: Impaired neurological function was reported

in workers exposed to solvents including xylene. Studies in laboratory animals have shown evidence of impaired hearing following high levels of exposure. Studies in laboratory animals suggest some changes in reproductive organs following high levels of exposure but no significant effects on reproduction were observed. Studies in laboratory animals indicate skeletal and visceral malformations, developmental delays, and increased fetal resorptions following extremely high levels of maternal exposure with evidence of maternal toxicity. The relevance of these observations to humans is not clear at this time. Adverse effects on the liver, kidney, bone marrow (changes in blood cell parameters) were observed in laboratory animals following high levels of exposure. The relevance of these observations to humans is not clear at this time.

1,2,4-TRIMETHYLBENZENE: The following information pertains to a mixture of C9 aromatic hydrocarbons, over 40% of which was composed of 1,2,4-trimethylbenzene. A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats. Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm. Embryotoxicity has been reported in studies of laboratory animals. Adverse effects included increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate.<n><n>

N-HEXANE: Long-term or repeated exposure to n-hexane can cause peripheral nerve damage. Initial symptoms are numbness of the fingers and toes. Also, motor weakness can occur in the digits, but may also involve muscles of the arms, thighs and forearms. The onset of these symptoms may be delayed for several months to a year after the beginning of exposure. Testicular atrophy and partial to full loss of the germ cell line were observed in sub-chronic high-dose inhalation studies of laboratory rodents. These effects appeared irreversible. Rodent reproduction studies have shown evidence of reduced fetal weight but no frank malformations.

CUMENE: Overexposure to cumene may cause upper respiratory tract irritation and CNS depression. Studies in laboratory animals indicate evidence of respiratory tract hyperplasia, and adverse effects on the liver, kidney and adrenal glands following high level exposure. The relevance of these findings to humans is not clear at this time. Findings from lifetime laboratory rodent inhalation studies were as follows: In F344/N rats: an increased incidence of renal carcinomas and adenomas, respiratory epithelial adenomas, and interstitial cell adenomas of the testes. In B6C3F1 mice: an increased incidence of carcinomas and adenomas of the bronchi and lung, liver neoplasms, hemangiosarcomas of the spleen, and adenomas of the thyroid.

ETHYLBENZENE: Findings from a 2-year inhalation study in rodents conducted by NTP were as follows: Effects were observed only at the highest exposure level (750 ppm). At this level the incidence of renal tumors was elevated in male rats (tubular carcinomas) and female rats (tubular adenomas). The incidence of tumors was also elevated in male mice (alveolar and bronchiolar carcinomas) and female mice (hepatocellular carcinomas). IARC has classified ethyl benzene as "possibly carcinogenic to humans" (Group 2B). Studies in laboratory animals indicate some evidence of post-implantation deaths following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure with evidence of maternal toxicity. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals have demonstrated evidence of ototoxicity (hearing loss) following exposure levels as low as 300 ppm for 5 days. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland.

BENZENE: Studies of workers exposed to benzene show clear evidence that overexposure can cause cancer and other diseases of the blood forming organs including Acute

Myelogenous Leukemia (AML), and Aplastic Anemia (AA), an often fatal disease. Some studies suggest overexposure to benzene may also be associated with Myelodysplastic Syndrome (MDS). Findings from a case control study of workers exposed to benzene was reported during the 2009 Benzene Symposium in Munich included an increase in Acute Myeloid Leukemias and Non-Hodgkins Lymphoid Neoplasms (NHLN) of the subtype follicular lymphoma (FL) in some occupational categories. Some studies of workers exposed to benzene have shown an association with increased rates of chromosome aberrations in circulating lymphocytes. One study of women workers exposed to benzene suggested a weak association with irregular menstruation. However, other studies of workers exposed to benzene have not demonstrated clear evidence of an effect on fertility or reproductive outcome in humans. Benzene can cross the placenta and affect the developing fetus. Cases of AA have been reported in the offspring of persons severely overexposed to benzene. Studies in laboratory animals indicate that prolonged, repeated exposure to high levels of benzene vapor can cause bone marrow suppression and cancer in multiple organ systems. Studies in laboratory animals show evidence of adverse effects on male reproductive organs following high levels of exposure but no significant effects on reproduction have been observed. Embryotoxicity has been reported in studies of laboratory animals but effects were limited to reduced fetal weight and minor skeletal variations. Benzene has been classified as a proven human carcinogen by OSHA and a Group 1 (Carcinogenic to Humans) material by IARC. The current proposed IARC classification for benzene is summarized as follows: Sufficient evidence for Acute Myeloid Leukemia; limited evidence for Acute Lymphatic Leukemia, Chronic Lymphatic Leukemia, Non-Hodgkin Lymphoma, and Multiple Myeloma.

NAPHTHALENE: Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from overexposure to naphthalene. Persons with glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have been reported in persons overexposed to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect. Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro. Naphthalene has been classified as Possibly Carcinogenic to Humans (2B) by IARC, based on findings from studies in laboratory animals.

CARBON MONOXIDE: is a chemical asphyxiant with no warning properties (such as odor). At 400-500 ppm for 1 hour headache and dyspnea may occur. If activity is increased, symptoms of overexposure may include nausea, irritability, increased respiration, tinnitus, sweating, chest pain, confusion, impaired judgement, dizziness, weakness, drowsiness, ataxia, irregular heart beat, cyanosis and pallor. Levels in excess of 1000 ppm can result in collapse, loss of conciousness, respiratory failure and death. Extremely high concentrations (12,800 ppm) can cause immediate unconsciousness and death in 1-3 minutes. Repeated anoxia can lead to central nervous system damage and peripheral neuropathy, with loss of sensation in the fingers, amnesia, and mental deterioration and possible congestive heart failure. Damage may also occur to the fetus, lung, liver, kidney, spleen, cardiovascular system and other organs.

WHOLLY-VAPORIZED UNLEADED GASOLINE: Lifetime exposure to wholly vaporized unleaded gasoline produced an increased incidence of liver tumors in female mice exposed to the highest exposure concentration (2056 ppm) and α-2 urinary globulin-mediated kidney tumors in male rats. No exposure-related tumors were observed in male mice or female rats. The male-specific rat kidney tumors are not considered relevant to human health. Mice receiving lifetime repeated skin application of various petroleum naphthas exhibited an irritation-dependent increased incidence of skin tumors. Additional studies suggest that these tumors occur through a mechanism that may not be relevant to human health. Epidemiological data from over 18,000 petroleum marketing and distribution workers

showed no increased risk of leukemia, multiple myeloma, or kidney cancer resulting from gasoline exposure. Unleaded gasoline has been identified as possibly carcinogenic to humans (2B) by the International Agency for Research on Cancer (IARC).

COMBUSTION ENGINE EXHAUST: Chronic inhalation studies of gasoline engine exhaust in mice, rats and hamsters did not produce any carcinogenic effects. Condensates/extracts of gasoline engine exhaust produced an increase in tumors compared to controls when testing by skin painting, subcutaneous injection, intratracheal instillation or implantation into the lungs. Gasoline exhaust has been classified as possibly carcinogenic to humans (2B) by the International Agency for Research on Cancer (IARC).

Adverse effects related to the physical, chemical and toxicological characteristics

Signs and Symptoms Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

Sensitization Not expected to be a skin or respiratory sensitizer.

Mutagenic effects May cause genetic defects.

Carcinogenicity May cause cancer.

Cancer designations are listed in the table below

Name	ACGIH (Class)	IARC (Class)	NTP	OSHA
Gasoline 86290-81-5	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Heptane (mixed isomers) 142-82-5	Not Listed	Not Listed	Not Listed	Not Listed
Pentane (mixed isomers) 78-78-4	Not Listed	Not Listed	Not Listed	Not Listed
Butane (mixed isomers) 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
Hexane Isomers (other than n-Hexane) 107-83-5	Not Listed	Not Listed	Not Listed	Not Listed
Toluene 108-88-3	Not Classifiable (A4)	Not Classifiable (3)	Not Listed	Not Listed
Xylene (mixed isomers) 1330-20-7	Not classifiable (A4)	Not classifiable (3)	Not Listed	Not Listed
n-Hexane 110-54-3	Not Listed	Not Listed	Not Listed	Not Listed
Cumene 98-82-8	Not listed	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not listed
1,2,4 Trimethylbenzene 95-63-6	Not Listed	Not Listed	Not Listed	Not Listed
Ethylbenzene 100-41-4	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Benzene 71-43-2	Confirmed human carcinogen (A1)	Carcinogenic to humans (1)	Known to be human carcinogen	Known carcinogen
Cyclohexane 110-82-7	Not Listed	Not Listed	Not Listed	Not Listed
Octane 111-65-9	Not Listed	Not Listed	Not Listed	Not Listed
1,2,3-trimethylbenzene 526-73-8	Not Listed	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not Listed

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (STOT) - single exposure Respiratory system. Central nervous system.

Specific Target Organ Toxicity (STOT) - repeated exposure Not classified.

Aspiration hazard May be fatal if swallowed or vomited and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Gasoline 86290-81-5	72-hr EC50 = 56 mg/l Algae	96-hr LC50 = 11 mg/l Rainbow trout (static)	-	48-hr LC50 = 7.6 mg/l Daphnia magna
Heptane (mixed isomers) 142-82-5	-	96-hr LC50 = 375 mg/L Tilapia	-	-
Pentane (mixed isomers) 78-78-4	-	96-hr LC50 = 3.1 mg/L Rainbow trout	-	48-hr EC50 = >1 - <10 mg/L Daphnia magna
Butane (mixed isomers) 106-97-8	-	-	-	-
Hexane Isomers (other than n-Hexane) 107-83-5	-	-	-	-
Toluene 108-88-3	72-hr EC50 = 12.5 mg/l Algae	96-hr LC50 <= 10 mg/l Rainbow trout	-	48-hr EC50 = 5.46-9.83 mg/l Daphnia magna 48-hr EC50 = 11.5 mg/l Daphnia magna (Static)
Xylene (mixed isomers) 1330-20-7	72-hr EC50 = 11 mg/l Algae	96-hr LC50 = 8 mg/l Rainbow trout	-	48-hr LC50 = 3.82 mg/l Daphnia magna
n-Hexane 110-54-3	-	96-hr LC50 = 2.5 mg/l Fathead minnow	-	-
Cumene 98-82-8	72-hr EC50 = 2.6 mg/l Algae	96-hr LC50 = 6.04-6.61 mg/l Fathead minnow (Flow-through) 96-hr LC50 = 2.7 mg/l Rainbow trout (semi-static)	-	48-hr EC50 = 7.9-14.1 mg/l Daphnia magna (static)
1,2,4 Trimethylbenzene 95-63-6	-	96-hr LC50 = 7.19-8.28 mg/l Fathead minnow (flow-through)	-	48-hr EC50 = 6.14 mg/L Daphnia magna
Ethylbenzene 100-41-4	72-hr EC50 = 1.7-7.6 mg/l Algae	96-hr LC50 = 4 mg/L Rainbow trout	-	48-hr EC50 = 1-4 mg/L Daphnia magna
Benzene 71-43-2	72-hr EC50 = 29 mg/l Algae	96-hr LC50 = 5.3 mg/l Rainbow trout (flow-through)	-	48-hr EC50 = 8.76-15.6 mg/l Daphnia magna (Static)
Cyclohexane 110-82-7	72-hr EC50 = 500 mg/l Algae	96-hr LC50 = 3.96-5.18 mg/l Fathead minnow	-	48-hr EC50 = 1.7-3.5 mg/L Bay shrimp
Octane 111-65-9	-	-	-	48-hr LC50 = 0.38 mg/l Daphnia magna
1,2,3-trimethylbenzene 526-73-8	-	96-hr LC50 = 7.72 mg/l Fathead Minnow (flow-through)	-	-
Naphthalene 91-20-3	-	96-hr LC50 = 0.91-2.82 mg/l Rainbow trout (static) 96-hr LC50 = 1.99 mg/l Fathead minnow (static)	-	48-hr LC50 = 1.6 mg/l Daphnia magna

Persistence and degradability Expected to be inherently biodegradable. The presence of ethanol in this product may impede the biodegradation of benzene, toluene, ethylbenzene and xylene in groundwater, resulting in elongated plumes of these constituents.

Bioaccumulation Has the potential to bioaccumulate.

Mobility in soil May partition into air, soil and water.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Description of Waste Residues
This material may be a flammable liquid waste.

Safe Handling of Wastes
Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required. Use appropriate grounding and bonding practices. Use only non-sparking tools. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking.

Disposal of Wastes / Methods of Disposal
The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

Methods of Contaminated Packaging Disposal
Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (49 CFR 172.101):

UN Proper Shipping Name:	Gasoline
UN/Identification No:	UN 1203
Transport Hazard Class(es):	3
Packing Group:	II

TDG (Canada):

UN Proper Shipping Name:	Gasoline
UN/Identification No:	UN 1203
Transport Hazard Class(es):	3
Packing Group:	II

15. REGULATORY INFORMATION

US Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b): This product and/or its components are listed on the TSCA Chemical Inventory.

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302: This product does not contain any component(s) included on EPA's Extremely Hazardous Substance (EHS) List.

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Gasoline	NA
Heptane (mixed isomers)	NA
Pentane (mixed isomers)	NA
Butane (mixed isomers)	NA
Hexane Isomers (other than n-Hexane)	NA
Toluene	NA
Xylene (mixed isomers)	NA

n-Hexane	NA
Cumene	NA
1,2,4 Trimethylbenzene	NA
Ethylbenzene	NA
Benzene	NA
Cyclohexane	NA
Octane	NA
1,2,3-trimethylbenzene	NA
Naphthalene	NA

SARA Section 304: This product may contain component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	Hazardous Substances RQs
Gasoline	NA
Heptane (mixed isomers)	NA
Pentane (mixed isomers)	NA
Butane (mixed isomers)	NA
Hexane Isomers (other than n-Hexane)	NA
Toluene	1000 lb final RQ 454 kg final RQ
Xylene (mixed isomers)	100 lb final RQ 45.4 kg final RQ
n-Hexane	5000 lb final RQ 2270 kg final RQ
Cumene	5000 lb final RQ 2270 kg final RQ
1,2,4 Trimethylbenzene	NA
Ethylbenzene	1000 lb final RQ 454 kg final RQ
Benzene	10 lb final RQ 4.54 kg final RQ
Cyclohexane	1000 lb final RQ 454 kg final RQ
Octane	NA
1,2,3-trimethylbenzene	NA
Naphthalene	100 lb final RQ 45.4 kg final RQ

SARA: The following EPA hazard categories apply to this product:

Acute Health Hazard
Chronic Health Hazard
Fire Hazard

SARA Section 313: This product may contain component(s), which if in exceedance of the de minimus threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:
Gasoline	None
Heptane (mixed isomers)	None
Pentane (mixed isomers)	None
Butane (mixed isomers)	None
Hexane Isomers (other than n-Hexane)	None
Toluene	1.0 % de minimis concentration
Xylene (mixed isomers)	1.0 % de minimis concentration
n-Hexane	1.0 % de minimis concentration
Cumene	1.0 % de minimis concentration

1,2,4 Trimethylbenzene	1.0 % de minimis concentration
Ethylbenzene	0.1 % de minimis concentration
Benzene	0.1 % de minimis concentration
Cyclohexane	1.0 % de minimis concentration
Octane	None
1,2,3-trimethylbenzene	None
Naphthalene	0.1 % de minimis concentration

State and Community Right-To-Know Regulations:
The following component(s) of this material are identified on the regulatory lists below:

Gasoline

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 0957
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Carcinogen; Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 0957 TPQ: 10000 lb (Under N.J.A.C. 7:1G, environmental hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories)
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Heptane (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1339
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Pentane (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1064
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed

California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - fourth degree
New Jersey - Environmental Hazardous Substances List:	SN 1064 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Butane (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 0273
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - fourth degree
New Jersey - Environmental Hazardous Substances List:	SN 0273 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Hexane Isomers (other than n-Hexane)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1285
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Toluene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Developmental toxicity, initial date 1/1/91 Female reproductive toxicity, initial date 8/7/09
New Jersey Right-To-Know:	SN 1866
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin)
Michigan Critical Materials Register List:	100 lb Annual usage threshold
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed

New Jersey - Special Hazardous Substances:	Flammable - third degree; Teratogen
New Jersey - Environmental Hazardous Substances List:	SN 1866 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)

Xylene (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 2014
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin)
Michigan Critical Materials Register List:	100 lb Annual usage threshold all isomers
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 2014 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)

n-Hexane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1340
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 1340 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1 lb RQ (air); 1 lb RQ (land/water)

Cumene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 4/6/10
New Jersey Right-To-Know:	SN 0542
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin)
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 0542 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present

New York - Reporting of Releases Part 597 - List of Hazardous Substances:	5000 lb RQ (air); 1 lb RQ (land/water)

1,2,4 Trimethylbenzene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1929
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Ethylbenzene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 6/11/04
New Jersey Right-To-Know:	SN 0851
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Carcinogen; flammable - Third degree
New Jersey - Environmental Hazardous Substances List:	SN 0851 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)

Benzene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 2/27/87 Developmental toxicity, initial date 12/26/97 Male reproductive toxicity, initial date 12/26/97
New Jersey Right-To-Know:	SN 0197
Pennsylvania Right-To-Know:	Environmental hazard; Special hazardous substance
Massachusetts Right-To Know:	Carcinogen; Extraordinarily hazardous
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin); Carcinogen (skin)
Michigan Critical Materials Register List:	100 lb Annual usage threshold
Massachusetts Extraordinarily Hazardous Substances:	Carcinogen; Extraordinarily hazardous
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Present
New Jersey - Special Hazardous Substances:	Carcinogen; Flammable - third degree; Mutagen
New Jersey - Environmental Hazardous Substances List:	SN 0197 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	10 lb RQ (air); 1 lb RQ (land/water)

Cyclohexane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 0565
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 0565 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)

Octane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1434
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

1,2,3-trimethylbenzene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1929
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Naphthalene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 4/19/02
New Jersey Right-To-Know:	SN 1322 SN 3758

Pennsylvania Right-To-Know:	Environmental hazard Present (particulate)
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Carcinogen
New Jersey - Environmental Hazardous Substances List:	SN 1322 TPQ: 500 lb (Reportable at the de minimis quantity of >0.1%)
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	100 lb RQ (air); 1 lb RQ (land/water)

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

Canadian Regulatory Information: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the (M)SDS contains all the information required by the Controlled Products Regulations.

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Gasoline	B2,D2A,D2B	0.1%
Heptane (mixed isomers)	B2,D2B	1%
Pentane (mixed isomers)	B2	1%
Butane (mixed isomers)	A,B1	1%
Hexane Isomers (other than n-Hexane)	B2	1%
Toluene	B2,D2A,D2B	0.1%
Xylene (mixed isomers)	B2,D2A,D2B	m-, o-isomers 1.0%; p-isomer 0.1%
n-Hexane	B2,D2A,D2B	1%
Cumene	B2,D2A	0.1%
1,2,4 Trimethylbenzene	B3,D2B	1%
Ethylbenzene	B2,D2A,D2B	0.1%
Benzene	B2,D2A,D2B	0.1%
Cyclohexane	B2,D2B	1%
Octane	B2,D2B	1%
1,2,3-trimethylbenzene	B3	1%
Naphthalene	B4,D2A	0.1%



Note: Not applicable.

16. OTHER INFORMATION

Prepared By Toxicology and Product Safety

Revision Date: 06/01/2016

Revision Note:

Revised Sections

The following sections (§) have been updated:
1. IDENTIFICATION
2. HAZARD IDENTIFICATION
3. COMPOSITION/INFORMATION ON INGREDIENTS
4. FIRST AID MEASURES
6. ACCIDENTAL RELEASE MEASURES
7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
9. PHYSICAL AND CHEMICAL PROPERTIES
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
15. REGULATORY INFORMATION

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

Helium

Section 1. Identification

GHS product identifier : Helium

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

Product use : Synthetic/Analytical chemistry.

Synonym : helium (dot); Helium-4; He; o-Helium; UN 1046

SDS # : 001025

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Compressed gas

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction.

Prevention : Use and store only outdoors or in a well ventilated place.

Response : Not applicable.

Storage : Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

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Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

CAS number/other identifiers

CAS number : 7440-59-7

Product code : 001025

Ingredient name	%	CAS number
Helium	100	7440-59-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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Section 4. First aid measures

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Helium	Oxygen Depletion [Asphyxiant]

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Molecular weight : 4 g/mole

Molecular formula : He

Boiling/condensation point : -268.9°C (-452°F)

Melting/freezing point : -272.2°C (-458°F)

Critical temperature : -267.9°C (-450.2°F)

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Flash point : [Product does not sustain combustion.]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : 0.14 (Air = 1) Liquid Density@BP: 7.8 lb/ft3 (125 kg/m3)

Specific Volume (ft^3/lb) : 96.1538

Gas Density (lb/ft^3) : 0.0104

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : 0.28

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

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Section 9. Physical and chemical properties

SADT : Not available.

Viscosity : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Helium	0.28	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1046	UN1046	UN1046	UN1046	UN1046
UN proper shipping name	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED
Transport hazard class(es)	2.2 	2.2 	2.2 	2.2 	2.2 
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg	**Explosive Limit and Limited Quantity Index** 0.125 **Passenger Carrying Road or Rail Index** 75	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 75 kg **Cargo Aircraft Only** Quantity limitation: 150 kg

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

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Section 14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Sudden release of pressure

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Helium	100	No.	Yes.	No.	No.	No.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

Canada inventory : This material is listed or exempted.

International regulations

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Section 15. Regulatory information

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: Not determined.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

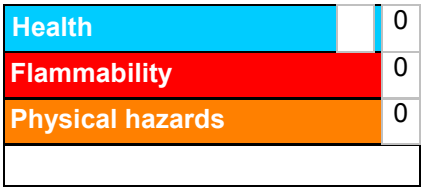
WHMIS (Canada) : Class A: Compressed gas.

CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is not listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 10/15/2014.

Date of issue/Date of revision : 10/15/2014.

Date of previous issue : 10/2/2014.

Version : 0.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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SAFETY DATA SHEET

Version 5.6
Revision Date 04/24/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Heptachlor

Product Number : PS78
Brand : Supelco
Index-No. : 602-046-00-2

CAS-No. : 76-44-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 2), H300
Acute toxicity, Dermal (Category 2), H310
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H300 + H310 Fatal if swallowed or in contact with skin
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P350	IF ON SKIN: Gently wash with plenty of soap and water.
P310	Immediately call a POISON CENTER or doctor/ physician.
P322	Specific measures (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene
Formula	:	$C_{10}H_5Cl_7$
Molecular weight	:	373.32 g/mol
CAS-No.	:	76-44-8
EC-No.	:	200-962-3
Index-No.	:	602-046-00-2

Hazardous components

Component	Classification	Concentration
Heptachlor		
	Acute Tox. 2; Carc. 2; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H300 + H310, H351, H373, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Heptachlor	76-44-8	TWA	0.050000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Skin contact does contribute to exposure. Confirmed animal carcinogen with unknown relevance to humans		
		TWA	0.5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		

		TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A Potential for dermal absorption		
		TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Liver damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 40.0 mg/kg

Inhalation: No data available

LD50 Dermal - Rat - 119.0 mg/kg

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Heptachlor)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: PC0700000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.007 mg/l - 96.0 h
Toxicity to daphnia and other aquatic	LC50 - Daphnia magna (Water flea) - 0.078 mg/l - 48 h

invertebrates

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Bioaccumulation Pimephales promelas (fathead minnow) - 276 d
- 0.00043 mg/l

Bioconcentration factor (BCF): 23,814

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: II
Proper shipping name: Toxic solids, organic, n.o.s. (Heptachlor)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Heptachlor)
Marine pollutant:yes

IATA
UN number: 2811 Class: 6.1 Packing group: II
Proper shipping name: Toxic solid, organic, n.o.s. (Heptachlor)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Heptachlor	76-44-8	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Heptachlor	76-44-8	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Heptachlor	76-44-8	2007-03-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Heptachlor	CAS-No. 76-44-8	Revision Date 2007-09-28
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Heptachlor	CAS-No. 76-44-8	Revision Date 2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H300	Fatal if swallowed.
H300 + H310	Fatal if swallowed or in contact with skin
H310	Fatal in contact with skin.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.6 Revision Date: 04/24/2015 Print Date: 02/09/2016

SAFETY DATA SHEET

Version 5.7
Revision Date 11/03/2015
Print Date 02/18/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Heptane

Product Number : 246654
Brand : Sigma-Aldrich
Index-No. : 601-008-00-2

CAS-No. : 142-82-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Aspiration hazard (Category 1), H304
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C_7H_{16}
Molecular weight	:	100.20 g/mol
CAS-No.	:	142-82-5
EC-No.	:	205-563-8
Index-No.	:	601-008-00-2
Registration number	:	01-2119457603-38-XXXX

Hazardous components

Component	Classification	Concentration
Heptane		
	Flam. Liq. 2; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H225, H304, H315, H336, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Flash back possible over considerable distance.

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store under inert gas. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Heptane	142-82-5	TWA	85.000000 ppm 350.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		C	440.000000 ppm 1,800.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
	Remarks	15 minute ceiling value		
		TWA	500.000000 ppm 2,000.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	400.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation		
		STEL	500.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation		
		TWA	400.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation		
		STEL	500.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation		
		TWA	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation		
		STEL	500 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 65 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -91 °C (-132 °F)
f)	Initial boiling point and boiling range	98 °C (208 °F)
g)	Flash point	-3.99 °C (24.82 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7 %(V) Lower explosion limit: 1.1 %(V)
k)	Vapour pressure	110.7 hPa (83.0 mmHg) at 37.7 °C (99.9 °F) 53.3 hPa (40.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available

m)	Relative density	0.684 g/mL at 25 °C (77 °F)
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	log Pow: > 3.000
p)	Auto-ignition temperature	223.0 °C (433.4 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

LC50 Inhalation - Rat - 4 h - 103,000 mg/m3

Inhalation: Irritating to respiratory system.

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
May be fatal if swallowed and enters airways.

Additional Information
RTECS: MI7700000

Prolonged or repeated exposure to skin causes defatting and dermatitis., Central nervous system depression, narcosis, Damage to the lungs.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Carassius auratus (goldfish) - 4 mg/l - 24.0 h
	LC50 - Tilapia mossambica - 375 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1.50 mg/l - 48 h

12.2 Persistence and degradability

Ratio BOD/ThBOD	3.5 %

12.3 Bioaccumulative potential
Indication of bioaccumulation.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

Do not empty into drains. Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1206 Class: 3 Packing group: II
Proper shipping name: Heptanes
Reportable Quantity (RQ):
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 1206 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: HEPTANES
Marine pollutant:yes

IATA
UN number: 1206 Class: 3 Packing group: II
Proper shipping name: Heptanes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Heptane	142-82-5	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Heptane	142-82-5	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Heptane	142-82-5	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity

Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Skin Irrit.	Skin irritation

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.7 Revision Date: 11/03/2015 Print Date: 02/18/2016

SAFETY DATA SHEET

Version 3.8
Revision Date 04/24/2015
Print Date 04/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Hexachlorobenzene

Product Number : 171050
Brand : Aldrich
Index-No. : 602-065-00-6

CAS-No. : 118-74-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - repeated exposure, Oral (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H350 May cause cancer.
H372 Causes damage to organs through prolonged or repeated exposure if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C_6Cl_6
Molecular weight	:	284.78 g/mol
CAS-No.	:	118-74-1
EC-No.	:	204-273-9
Index-No.	:	602-065-00-6

Hazardous components

Component	Classification	Concentration
Hexachlorobenzene		
	Carc. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H350, H372, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Hexachlorobenzene	118-74-1	TWA	0.002000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Porphyrin effects Skin damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 227 - 229 °C (441 - 444 °F) - lit.
f)	Initial boiling point and boiling range	323 - 326 °C (613 - 619 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available

m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 10,000 mg/kg

LD50 Oral - Mouse - 4,000 mg/kg

LD50 Oral - Cat - 1,700 mg/kg

LD50 Oral - Rabbit - 2,600 mg/kg

LD50 Oral - Guinea pig - > 3,000 mg/kg

LD50 Oral - Quail - > 6,400 mg/kg

LD50 Oral - Mammal - > 5,000 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Change in motor activity (specific assay).

LC50 Inhalation - Rat - 3,600 mg/m3

LC50 Inhalation - Mouse - 4,000 mg/m3

LC50 Inhalation - Cat - 1,600 mg/m3

LC50 Inhalation - Rabbit - 1,800 mg/m3

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunburnlike responses to edematous, vesiculated lesions, or bullae

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Hexachlorobenzene)
NTP:	Reasonably anticipated to be a human carcinogen (Hexachlorobenzene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Ingestion - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: Not available

Liver -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 7.6 mg/l - 96.0 h
	NOEC - Pimephales promelas (fathead minnow) - > 0.0048 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - > 0.005 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Bioaccumulation: Pimephales promelas (fathead minnow) - 32 d - 0.0003 mg/l

Bioconcentration factor (BCF): 22,000

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2729 Class: 6.1 Packing group: III
Proper shipping name: Hexachlorobenzene
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 2729 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: HEXACHLOROBENZENE
Marine pollutant:yes

IATA

UN number: 2729 Class: 6.1 Packing group: III
Proper shipping name: Hexachlorobenzene

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Hexachlorobenzene	118-74-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Hexachlorobenzene	118-74-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Hexachlorobenzene	118-74-1	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Hexachlorobenzene	CAS-No. 118-74-1	Revision Date 2007-09-28
WARNING: This product contains a chemical known to the	CAS-No.	Revision Date

State of California to cause birth defects or other reproductive harm. Hexachlorobenzene	118-74-1	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.8 Revision Date: 04/24/2015 Print Date: 04/01/2016

SAFETY DATA SHEET

Issuing Date no data available **Revision Date** 29-Oct-2015 **Revision Number** 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Number	**019**
Product Name	**Hexavalent Chromium - 1000 mg/L, 125 mL**
Synonyms	None

Recommended use of the chemical and restrictions on use

Recommended Use	Laboratory use only
Uses advised against	No information available

Details of the supplier of the safety data sheet

Supplier	ERA a Waters Company
Supplier Address	16341 Table Mountain Parkway, Golden, CO 80403 USA
Non-Emergency Telephone Number	+1-303-431-8454
Supplier Email	sdsinfo@waters.com

Emergency telephone number

Company Emergency Phone Number	In case of EMERGENCY call CHEMTREC Day or Night Within USA and Canada: 800-424-9300 International Call Collect: +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1B

GHS Label elements, including precautionary statements

Emergency Overview

Signal word **Danger**

Hazard Statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause genetic defects
May cause cancer
May damage fertility or the unborn child



Appearance Yellow **Physical state** Liquid->Liquid **Odor** Odorless

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific treatment (see supplemental first aid instructions on this label)
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Inhalation
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Precautionary Statements - Storage
Store locked up
Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable
Unknown Toxicity
0 % of the mixture consists of ingredient(s) of unknown toxicity
Other information

Harmful to aquatic life with long lasting effects
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Interactions with Other Chemicals
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Note: only the components contributing to the product's GHS hazard classification are listed in this section.

Synonyms None.

Chemical Name	CAS-No	Percent
Potassium Dichromate	7778-50-9	0.25

4. FIRST AID MEASURES

First aid measures

General Advice Show this safety data sheet to the doctor in attendance.
Eye contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Inhalation MAY CAUSE ALLERGIC RESPIRATORY REACTION. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Seek immediate medical attention/advice.
Ingestion May produce an allergic reaction. If an allergic reaction occurs, stop use and seek medical help right away. Do NOT induce vomiting. Rinse mouth immediately and drink plenty of

water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Itching. Rashes. Hives. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing.

Indication of any immediate medical attention and special treatment needed

Notes to Physician May cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Product is or contains a sensitizer. May cause sensitization by skin contact. May cause sensitization by inhalation and skin contact.

Uniform Fire Code Sensitizer: Liquid

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Dichromate 7778-50-9	TWA: 0.05 mg/m³ Cr	TWA: 5 µg/m³ Action Level: 2.5 µg/m³ Cr (vacated) Ceiling: 0.1 mg/m³ Ceiling: 0.1 mg/m³ CrO3 applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect	IDLH: 15 mg/m³ Cr(VI) TWA: 0.0002 mg/m³ Cr

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Liquid->Liquid		
Appearance	Yellow	**Odor**	Odorless
Color	No information available	**Odor Threshold**	No information available

Property	Values	Remarks Method
pH	5	None known
Melting / freezing point	no data available	None known
Boiling point / boiling range	no data available	None known
Flash Point	no data available	None known
Evaporation Rate	no data available	None known
Flammability (solid, gas)	no data available	None known

Flammability Limit in Air		
Upper flammability limit	no data available	
Lower flammability limit	no data available	
Vapor pressure	no data available	None known
Vapor density	no data available	None known
Specific Gravity	1	None known
Water Solubility	Soluble in water	None known
Solubility in other solvents	no data available	None known
Partition coefficient: n-octanol/water	no data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature	no data available	None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	no data available	None known
Explosive properties	no data available	
Oxidizing properties	no data available	

Other Information

Softening Point	no data available
Particle Size	no data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

Reactivity

no data available.

Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Hazardous Polymerization
Hazardous polymerization does not occur.
Conditions to avoid
None known based on information supplied.
Incompatible materials
None known based on information supplied.
Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information .

Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation".

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Dichromate 7778-50-9	= 25 mg/kg (Rat) = 48 mg/kg (Rat)	= 1150 mg/kg (Rabbit) = 14 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms Itching. Rashes. Hives. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization in susceptible persons. May cause sensitization by skin contact. May cause sensitization by inhalation.

Mutagenic Effects There is no data for this product. Contains a known or suspected mutagen.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Potassium Dichromate 7778-50-9	A1	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)
A1 - Known Human Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity Contains a known or suspected reproductive toxin.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic toxicity No known effect based on information supplied. Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very susceptible persons. Contains a known or suspected mutagen. Possible risk of irreversible effects. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin.

Target Organ Effects Skin. Respiratory system. Eyes. May affect the genetic material in germ cells (sperm and eggs). Gastrointestinal tract (GI). Reproductive system.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
40,000.00 mg/kg
ATEmix (inhalation-dust/mist)
20.04 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Potassium Dichromate 7778-50-9		96h LC50: > 139 mg/L (Cyprinus carpio) 96h LC50: 113.6 - 155.7 mg/L (Lepomis macrochirus) 96h LC50: = 320 mg/L (Lepomis macrochirus) 96h LC50: 65.6 - 137.6 mg/L (Lepomis macrochirus) 96h LC50: = 12.3 mg/L (Oncorhynchus mykiss) 96h LC50: 21.209 - 30.046 mg/L (Oryzias latipes) 96h LC50: 15.41 - 30.36 mg/L (Pimephales promelas) 96h LC50: 14 - 20.9 mg/L (Pimephales promelas) 96h LC50: 24.81 - 34.55 mg/L (Poecilia reticulata) 96h LC50: 23 - 41.2 mg/L (Poecilia reticulata) 96h LC50: = 26 mg/L (Morone saxatilis)		

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Potassium Dichromate 7778-50-9	Toxic Corrosive Ignitable

14. TRANSPORT INFORMATION

DOT Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated
Proper Shipping Name NON REGULATED
Special Provisions None

IMDG Not regulated
Special Provisions None
Marine Pollutant Not applicable

RID Not regulated
Special Provisions None

ADR Not regulated
Special Provisions None

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.
ENCS	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Percent	SARA 313 - Threshold Values %
Potassium Dichromate - 7778-50-9	7778-50-9	0.25	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium Dichromate 7778-50-9	10 lb	X		X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Potassium Dichromate 7778-50-9	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

.

International Regulations

Component	Carcinogen Status	Exposure Limits
Potassium Dichromate 7778-50-9 (0.25)	A1	Mexico: TWA 0.05 mg/m³ Mexico: TWA 0.5 mg/m³

A1 - Confirmed Human Carcinogen

Canada
WHMIS Hazard Class
Not determined

16. OTHER INFORMATION

NFPA	**Health Hazards** 2	**Flammability** 0	**Instability** 0	**Physical and Chemical Hazards** -
HMIS	**Health Hazards** 2 *	**Flammability** 0	**Physical Hazard** 0	**Personal Protection** X

Chronic Hazard Star Legend * = Chronic Health Hazard

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Revision Date 29-Oct-2015
Revision Note No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

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End of Safety Data Sheet

SAFETY DATA SHEET

Version 6.8
Revision Date 08/28/2024
Print Date 08/29/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Indeno[1,2,3-*cd*]pyrene

Product Number : 48499
Brand : Supelco
CAS-No. : 193-39-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Carcinogenicity (Category 2), H351

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Warning

Hazard Statements
H351 Suspected of causing cancer.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	$C_{22}H_{12}$
Molecular weight	:	276.33 g/mol
CAS-No.	:	193-39-5
EC-No.	:	205-893-2

Component	Classification	Concentration
Indeno[1,2,3-cd]pyrene		
	Carc. 2; H351	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class
Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm

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Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter type P3
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	163.6 °C (326.5 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	No data available

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	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
Remarks: No data available

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Serious eye damage/eye irritation
Remarks: No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Indeno[1,2,3-cd]pyrene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Indeno[1,2,3-cd]pyrene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

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12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Indeno[1,2,3-cd]pyrene	193-39-5	100	100

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Chronic Health Hazard

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SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Indeno[1,2,3-cd]pyrene	193-39-5	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

Indeno[1,2,3-cd]pyrene	193-39-5

Pennsylvania Right To Know

Indeno[1,2,3-cd]pyrene	193-39-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including Indeno[1,2,3-cd]pyrene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.8
Revision Date 30.05.2024
Print Date 16.09.2024
GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	:	Iron
Product Number	:	12310
Brand	:	Aldrich
REACH No.	:	01-2119462838-24-XXXX
CAS-No.	:	7439-89-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

1.4 Emergency telephone

Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable solids, (Category 1)	H228: Flammable solid.
Self-heating substances and mixtures, (Category 1)	H251: Self-heating; may catch fire.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

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Pictogram	
Signal Word	Danger
Hazard Statements	
H228	Flammable solid.
H251	Self-heating; may catch fire.
Precautionary Statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Supplemental Hazard Statements	none

Reduced Labeling (<= 125 ml)

Pictogram	
Signal Word	Danger
Hazard Statements	
H251	Self-heating; may catch fire.
Precautionary Statements	
P235	Keep cool.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
Supplemental Hazard Statements	none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Toxicological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Fe
Molecular weight	:	55,85 g/mol
CAS-No.	:	7439-89-6
EC-No.	:	231-096-4

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Iron oxides
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

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5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up
Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Change contaminated clothing. Wash hands after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 4.2: Pyrophoric and self-heating hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
Recommended Filter type: Filter type P1

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Physical state	powder
b)	Color	light gray
c)	Odor	odorless
d)	Melting point/freezing point	Melting point/range: 1.538 °C at 1.023 hPa
e)	Initial boiling point and boiling range	2.861 °C at 1.013 hPa
f)	Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 1.
g)	Upper/lower flammability or explosive limits	No data available
h)	Flash point	Not applicable
i)	Autoignition temperature	The substance or mixture is classified as self heating with the category 1.

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j)	Decomposition temperature	No data available
k)	pH	Not applicable
l)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m)	Water solubility	insoluble
n)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
o)	Vapor pressure	Not applicable
p)	Density	7,87 g/cm3 at 20 °C
	Relative density	7,87 at 20 °C
q)	Relative vapor density	
r)	Particle characteristics	No data available
s)	Explosive properties	Not classified as explosive.
t)	Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2 Other safety information

Dust explosion class St1

SECTION 10: Stability and reactivity

10.1 Reactivity

Self-heating; may catch fire.
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

Strong acids

10.6 Hazardous decomposition products

In the event of fire: see section 5

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 7.500 mg/kg
Remarks: (Lit.)
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
Remarks: No skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)
Remarks: (Lit.)

Respiratory or skin sensitization
Did not cause sensitization on laboratory animals.

Germ cell mutagenicity
Test system: S. typhimurium
Method: OECD Test Guideline 471
Result: Not mutagenic in Ames Test.
Remarks: (Lit.)

Carcinogenicity
No data available

Reproductive toxicity
Did not show teratogenic effects in animal experiments.
Animal testing did not show any effects on fertility.

Specific target organ toxicity - single exposure
The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard
No data available

11.2 Additional Information

Endocrine disrupting properties

Product:

Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	static test	- Morone saxatilis - 13,6 mg/l - 96 h

12.2 Persistence and degradability
Not applicable

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties
Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods
No data available

SECTION 14: Transport information

14.1 UN number
ADR/RID: 3178 IMDG: 3178 IATA: 3178

14.2 UN proper shipping name
ADR/RID: FLAMMABLE SOLID, INORGANIC, N.O.S. (Iron Powder,)
IMDG: FLAMMABLE SOLID, INORGANIC, N.O.S. (Iron Powder,)
IATA: Flammable solid, inorganic, n.o.s. (Iron Powder,)

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14.3 Transport hazard class(es)

ADR/RID: 4.1	IMDG: 4.1	IATA: 4.1

14.4 Packaging group

ADR/RID: III	IMDG: III	IATA: III

14.5 Environmental hazards

ADR/RID: no	IMDG Marine pollutant: no	IATA: no

14.6 Special precautions for user

Tunnel restriction code : (E)

Further information : No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

Version 5.8
Revision Date 03/06/2015
Print Date 02/18/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Isopropyl alcohol

Product Number : W292907
Brand : Aldrich
Index-No. : 603-117-00-0

CAS-No. : 67-63-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	2-Propanol sec-Propyl alcohol Isopropyl alcohol Isopropanol
Formula	:	C_3H_8O
Molecular weight	:	60.10 g/mol
CAS-No.	:	67-63-0
EC-No.	:	200-661-7
Index-No.	:	603-117-00-0

Hazardous components

Component	Classification	Concentration
2-Propanol		
	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Move out of dangerous area.Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle and store under inert gas. hygroscopic

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
2-Propanol	67-63-0	TWA	200.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment		

		Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	400.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	400.000000 ppm 980.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	400.000000 ppm 980.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	500.000000 ppm 1,225.000000 mg/m3	USA. NIOSH Recommended Exposure Limits

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
2-Propanol	67-63-0	Acetone	40.0000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 60 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	alcohol-like
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -89.5 °C (-129.1 °F) - lit.
f)	Initial boiling point and boiling range	82 °C (180 °F) - lit.
g)	Flash point	12.0 °C (53.6 °F) - closed cup
h)	Evaporation rate	3.0
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or	Upper explosion limit: 12.7 %(V) Lower explosion limit: 2 %(V)

	explosive limits	
k)	Vapour pressure	43.2 hPa (32.4 mmHg) at 20.0 °C (68.0 °F) 58.7 hPa (44.0 mmHg) at 25.0 °C (77.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.785 g/cm3 at 25 °C (77 °F)
n)	Water solubility	completely soluble
o)	Partition coefficient: n-octanol/water	log Pow: 0.05
p)	Auto-ignition temperature	425.0 °C (797.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	20.8 mN/m at 25.0 °C (77.0 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 5,045 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity).

LC50 Inhalation - Rat - 8 h - 16000 ppm

LD50 Dermal - Rabbit - 12,800 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation - 24 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
Inhalation, Oral - May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: NT8050000

Central nervous system depression, prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects., Aspiration may lead to:, Lung oedema, Pneumonia
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence
Kidney - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h
	Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h
	EC50 - Algae - > 1,000.00 mg/l - 24 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No bioaccumulation is to be expected (log Pow <= 4).

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1219 Class: 3 Packing group: II
Proper shipping name: Isopropanol
Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG
UN number: 1219 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: ISOPROPANOL

IATA
UN number: 1219 Class: 3 Packing group: II
Proper shipping name: Isopropanol

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
2-Propanol	67-63-0	1987-01-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
2-Propanol	67-63-0	1987-01-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
2-Propanol	67-63-0	1987-01-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
2-Propanol	67-63-0	1987-01-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
STOT SE	Specific target organ toxicity - single exposure

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.8 Revision Date: 03/06/2015 Print Date: 02/18/2016

SAFETY DATA SHEET

Version 4.7
Revision Date 12/29/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Lead

Product Number : 391352
Brand : Aldrich

CAS-No. : 7439-92-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H302 Harmful if swallowed.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and

	understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Pb
Molecular weight	:	207.20 g/mol
CAS-No.	:	7439-92-1
EC-No.	:	231-100-4

Hazardous components

Component	Classification	Concentration
Lead		
	Acute Tox. 4; Carc. 2; Repr. 2; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H302, H351, H361, H373, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Lead oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
	Remarks	See 1910.1025		
Lead	7439-92-1	TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Confirmed animal carcinogen with unknown relevance to humans		
		TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Hematologic effects Peripheral Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		

		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		See Appendix C		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Lead	7439-92-1	Lead	30µg/ 100 ml	In blood	ACGIH - Biological Exposure Indices (BEI)
	Remarks	Not critical			
		Lead	30µg/ 100 ml	In blood	ACGIH - Biological Exposure Indices (BEI)
		Not critical			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 327.4 °C (621.3 °F) - lit.
f)	Initial boiling point and boiling range	1,740 °C (3,164 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong acids

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity

Rat
Cytogenetic analysis

Carcinogenicity

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Lead)
NTP:	Reasonably anticipated to be a human carcinogen (Lead)
	Reasonably anticipated to be a human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Lead)
OSHA:	1910.1025 (Lead)
	OSHA specifically regulated carcinogen (Lead)

Reproductive toxicity
Suspected human reproductive toxicant

Reproductive toxicity - Rat - Inhalation
Effects on Newborn: Biochemical and metabolic.

Reproductive toxicity - Rat - Oral
Effects on Newborn: Behavioral.

Reproductive toxicity - Mouse - Oral
Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated). Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).

Developmental Toxicity - Rat - Inhalation
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Blood and lymphatic system (including spleen and marrow).

Developmental Toxicity - Rat - Oral
Specific Developmental Abnormalities: Blood and lymphatic system (including spleen and marrow). Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Developmental Toxicity - Rat - Oral
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

Developmental Toxicity - Mouse - Oral
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: OF7525000

anemia

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LOEC - Oncorhynchus mykiss (rainbow trout) - 1.19 mg/l - 96.0 h
	LC50 - Micropterus dolomieui - 2.2 mg/l - 96.0 h
	mortality NOEC - Salvelinus fontinalis - 1.7 mg/l - 10.0 d
Toxicity to daphnia and other aquatic invertebrates	mortality LOEC - Daphnia (water flea) - 0.17 mg/l - 24 h
	mortality NOEC - Daphnia (water flea) - 0.099 mg/l - 24 h
Toxicity to algae	mortality EC50 - Skeletonema costatum - 7.94 mg/l - 10 d

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Bioaccumulation: Oncorhynchus kisutch - 2 Weeks - 150 µg/l

Bioconcentration factor (BCF): 12

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Lead)
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead)
Marine pollutant:yes
IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Lead)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Lead	7439-92-1	1994-04-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Lead	7439-92-1	1994-04-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Lead	7439-92-1	1994-04-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Lead	7439-92-1	1994-04-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Lead	CAS-No. 7439-92-1	Revision Date 1989-07-10
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Lead	CAS-No. 7439-92-1	Revision Date 1989-07-10

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.7 Revision Date: 12/29/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 5.7
Revision Date 05/27/2015
Print Date 02/23/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Lindane

Product Number : 233390
Brand : Aldrich
Index-No. : 602-043-00-6

CAS-No. : 58-89-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Effects on or via lactation, H362
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H301	Toxic if swallowed.
H312 + H332	Harmful in contact with skin or if inhaled
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P263	Avoid contact during pregnancy/ while nursing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1α,2α,3β,4α,5α,6β-Hexachlorocyclohexane γ-BHC
Formula	:	$C_6H_6Cl_6$
Molecular weight	:	290.83 g/mol
CAS-No.	:	58-89-9
EC-No.	:	200-401-2
Index-No.	:	602-043-00-6

Hazardous components

Component	Classification	Concentration
γ-1,2,3,4,5,6-Hexachlorocyclohexane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Lact. ; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312 + H332, H351, H362, H373, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Liver damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 113 - 115 °C (235 - 239 °F) - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.85 g/cm3
n)	Water solubility	8.35 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	Pow: 3.5 at 22 °C (72 °F)
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 88.0 mg/kg

LC50 Inhalation - Rat - 4 h - 1,560 mg/m3

Dermal: No data available

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation

Respiratory or skin sensitisation
Will not occur

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	2B - Group 2B: Possibly carcinogenic to humans (γ-1,2,3,4,5,6-Hexachlorocyclohexane)
NTP:	Reasonably anticipated to be a human carcinogenThe reference note has been added by TD based on the background information of the NTP. (γ-1,2,3,4,5,6-Hexachlorocyclohexane)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Effects on or via lactation

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GV4900000

Neurotoxic effects., Cyanosis, Headache, Nausea, Incoordination., Tremors, Vomiting, Dizziness, Seizures., Unconsciousness

Reproductive system. - Irregularities - Based on Human Evidence
Reproductive system. - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 0.2 mg/l - 96.0 h
	LC50 - Cyprinodon variegatus (sheepshead minnow) - 0.9 - 1.3 mg/l - 96.0 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.03 - 0.28 mg/l - 48.0 h
	NOEC - Oncorhynchus mykiss (rainbow trout) - 0.056 mg/l - 3.0 d
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.038 mg/l - 96.0 h

	LOEC - Oncorhynchus mykiss (rainbow trout) - 0.1 mg/l - 3.0 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.80 - 6.50 mg/l - 48 h
	LOEC - Daphnia (water flea) - 0.021 mg/l - 7 d
Toxicity to algae	EC50 - Algae - 4.00 mg/l - 72 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Pimephales promelas (fathead minnow) - 304 d - 0.0091 mg/l
	Bioconcentration factor (BCF): 674

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
Very toxic to aquatic life with long lasting effects.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (γ-1,2,3,4,5,6-Hexachlorocyclohexane)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (γ-1,2,3,4,5,6-Hexachlorocyclohexane)
Marine pollutant:yes

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (γ-1,2,3,4,5,6-Hexachlorocyclohexane)

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2007-07-01

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2009-02-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H312 + H332	Harmful in contact with skin or if inhaled
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.7 Revision Date: 05/27/2015 Print Date: 02/23/2016

SAFETY DATA SHEET

Version 6.6
Revision Date 09/06/2024
Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Magnesium

Product Number : 266302
Brand : Sigma-Aldrich
Index-No. : 012-002-00-9
CAS-No. : 7439-95-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 1), H228
Self-heating chemicals (Category 1), H251
Chemicals which, in contact with water, emit flammable gases (Category 2), H261

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word	Danger

Hazard Statements

H228	Flammable solid.
H251	Self-heating; may catch fire.
H261	In contact with water releases flammable gas.

Precautionary Statements

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P223	Do not allow contact with water.
P231 + P232	Handle under inert gas. Protect from moisture.
P235 + P410	Keep cool. Protect from sunlight.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P280	Wear protective gloves/ eye protection/ face protection.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P402 + P404	Store in a dry place. Store in a closed container.
P403 + P235	Store in a well-ventilated place. Keep cool.
P407	Maintain air gap between stacks/ pallets.
P420	Store away from other materials.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Combustible dust

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Mg
Molecular weight	:	24.31 g/mol
CAS-No.	:	7439-95-4
EC-No.	:	231-104-6
Index-No.	:	012-002-00-9

No components need to be disclosed according to the applicable regulations.

For the full text of the H-Statements mentioned in this Section, see Section 16.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Special powder against metal fire Cover with dry sand or cement.

Unsuitable extinguishing media
Foam Water

5.2 Special hazards arising from the substance or mixture

Magnesium oxide
Not combustible.
May not get in touch with: Water
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

none

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Keep workplace dry. Do not allow product to come into contact with water.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Change contaminated clothing. Wash hands after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep away from heat and sources of ignition.
Never allow product to get in contact with water during storage.

Storage class
Storage class (TRGS 510): 4.2: Pyrophoric and self-heating hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

8.2 Exposure controls

Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Recommended Filter type: Filter type P1
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

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operates as MilliporeSigma in the US and Canada

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: chips
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 648 °C (1198 °F) - lit.
f)	Initial boiling point and boiling range	1,090 °C 1,994 °F - lit.
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	May form combustible dust concentrations in air.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	1 hPa at 621 °C (1150 °F)
l)	Vapor density	No data available
m)	Density	1.74 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	The substance or mixture is classified as self heating with the category 1.
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Self-heating; may catch fire.

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operates as MilliporeSigma in the US and Canada

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Risk of ignition or formation of inflammable gases or vapours with:
Oxidizing agents
alkalines
Halogenated hydrocarbon
halogens
Alcohols
nitrates
acids
Water

10.4 Conditions to avoid
Exposure to moisture. Exposure to air.
Moisture.

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
Remarks: No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, chills, Fever, fatigue, muscle pain, joint pain, rash, Anorexia.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence

Liver - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 1869 Class: 4.1 Packing group: III
Proper shipping name: Magnesium
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG
UN number: 1869 Class: 4.1 Packing group: III EMS-No: F-G, S-G
Proper shipping name: MAGNESIUM

IATA
UN number: 1869 Class: 4.1 Packing group: III
Proper shipping name: Magnesium

SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Fire Hazard Reactivity Hazard Chronic Health Hazard
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

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Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.6 Revision Date: 09/06/2024 Print Date: 09/07/2024

The life science business of Merck KGaA, Darmstadt, Germany
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SAFETY DATA SHEET

Version 4.6
Revision Date 03/02/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Manganese

Product Number : 463728
Brand : Aldrich

CAS-No. : 7439-96-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H260 In contact with water releases flammable gases which may ignite spontaneously.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)
P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 + P232 Handle under inert gas. Protect from moisture.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P335 + P334 Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.

P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Mn
Molecular weight	:	54.94 g/mol
CAS-No.	:	7439-96-5
EC-No.	:	231-105-1

Hazardous components

Component	Classification	Concentration
Manganese		
	Water-react. 1; Aquatic Acute 3; Aquatic Chronic 3; H260, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder Carbon dioxide (CO2)

Unsuitable extinguishing media
Water

5.2 Special hazards arising from the substance or mixture
Manganese/manganese oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Moisture sensitive. Keep in a dry place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Manganese	7439-96-5	TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC)		
		C	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		

		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) varies		
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2014 Adoption varies		
		TWA	0.020000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2014 Adoption varies		
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment varies		
		TWA	0.02 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment varies		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
impervious clothing, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,244 °C (2,271 °F) - lit.
f)	Initial boiling point and boiling range	1,962 °C (3,564 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	7.3 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
acids, Halogens, Bases, Phosphorus, Sulphur oxides, Peroxides

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 9,000 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Carcinogenicity - Rat - Intramuscular
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or application.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: OO9275000

Men exposed to manganese dusts showed a decrease in fertility. Chronic manganese poisoning primarily involves the central nervous system. Early symptoms include languor, sleepiness and weakness in the legs. A stolid mask-like appearance of the face, emotional disturbances such as uncontrollable laughter and a spastic gait with tendency to fall in walking are findings in more advanced cases. High incidence of pneumonia has been found in workers exposed to the dust or fume of some manganese compounds.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 40 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3208 Class: 4.3 Packing group: I
Proper shipping name: Metallic substance, water-reactive, n.o.s. (Manganese)

Poison Inhalation Hazard: No

IMDG
UN number: 3208 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (Manganese)

IATA
UN number: 3208 Class: 4.3 Packing group: I
Proper shipping name: Metallic substance, water-reactive, n.o.s. (Manganese)
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

SARA 311/312 Hazards
Reactivity Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H260	In contact with water releases flammable gases which may ignite spontaneously.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	2

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	2
Special hazard.I:	W

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 03/02/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 6.12
Revision Date 07/27/2024
Print Date 07/28/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	:	*m*-Cresol
Product Number	:	W353000
Brand	:	Aldrich
Index-No.	:	604-004-00-9
CAS-No.	:	108-39-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances
Uses advised against	:	The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

1.4 Emergency telephone

Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311

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Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Short-term (acute) aquatic hazard (Category 2), H401
Long-term (chronic) aquatic hazard (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word	Danger

Hazard Statements

H227	Combustible liquid.
H301 + H311	Toxic if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : 3-Methylphenol

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Formula	:	C_7H_8O
Molecular weight	:	108.14 g/mol
CAS-No.	:	108-39-4
EC-No.	:	203-577-9
Index-No.	:	604-004-00-9

Component	Classification	Concentration
meta-Cresol		
	Flam. Liq. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 3; H227, H301, H311, H314, H318, H401, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed
If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.
Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures

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Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Moisture sensitive.

Storage class
Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
meta-Cresol	108-39-4	TWA	2.3 ppm 10 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5 ppm 22 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	Skin designation		
		TWA	20 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Not classifiable as a human carcinogen Danger of cutaneous absorption		
		PEL	5 ppm 22 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Chloroprene
Minimum layer thickness: 0.65 mm
Break through time: 480 min
Material tested:KCL 720 Camapren®

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Latex gloves
Minimum layer thickness: 0.6 mm
Break through time: 60 min
Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M)

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter A-(P3)
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Color: colorless, light yellow
b)	Odor	phenol-like

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c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 8 - 10 °C (46 - 50 °F) - lit.
f)	Initial boiling point and boiling range	203 °C 397 °F - lit.
g)	Flash point	86 °C (187 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 1.35 %(V) Lower explosion limit: 1.06 %(V)
k)	Vapor pressure	< 1 hPa at 20 °C (68 °F)
l)	Vapor density	3.73 - (Air = 1.0)
m)	Density	1.034 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	1.0320 °C
n)	Water solubility	22.7 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 1.96 - Bioaccumulation is not expected.
p)	Autoignition temperature	559 °C (1038 °F) at 1,013 hPa
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	Not classified as explosive.
t)	Oxidizing properties	none

9.2 Other safety information

Dissociation constant	10.09 at 25 °C (77 °F)
Relative vapor density	3.73 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

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10.3 Possibility of hazardous reactions

Violent reactions possible with:
Strong oxidizing agents
Nitric acid
fuming sulfuric acid
chlorosulfonic acid
alkalines
Iron
Lead

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male - 242 mg/kg
(OECD Test Guideline 401)
Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract
Inhalation: Corrosive to respiratory system.
LD50 Dermal - Rabbit - 620 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity).
Behavioral:Tetany.
(RTECS)

Skin corrosion/irritation
Skin - Rabbit
Result: Causes burns. - 24 h
Remarks: (ECHA)
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Serious eye damage/eye irritation
Remarks: Causes serious eye damage.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
Test Type: Ames test
Test system: Escherichia coli/Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471

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Result: negative
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: positive
Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test Type: Chromosome aberration test
Species: Mouse
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 475
Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male - Oral - 13 Weeks - NOAEL (No observed adverse effect level) - 50 mg/kg

RTECS: GO6125000
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

Systemic effects:

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Headache
Nausea
Vomiting
Dizziness
agitation, spasms
respiratory arrest
Unconsciousness

Damage to:

Central nervous system
Liver
Kidney

This substance should be handled with particular care.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	static test LC50 - Salvelinus fontinalis - 7.6 mg/l - 96 h Remarks: (ECHA)
	static test LC50 - Oncorhynchus mykiss (rainbow trout) - 8.6 mg/l - 96 h Remarks: (ECHA)
	static test LC50 - Salmo trutta (brown trout) - 8.4 mg/l - 96 h Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	flow-through test EC50 - Daphnia pulicaria - > 99.5 mg/l - 48 h (US-EPA)
Toxicity to fish(Chronic toxicity)	flow-through test NOEC - Pimephales promelas (fathead minnow) - 1.35 mg/l - 32 d (OECD Test Guideline 210) Remarks: The value is given in analogy to the following substances: p-cresol
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 1 mg/l - 21 d Remarks: (ECHA) The value is given in analogy to the following substances: p-cresol

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12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 10 d
Result: 96 % - Inherently biodegradable.
(OECD Test Guideline 302B)

12.3 Bioaccumulative potential

Bioaccumulation Leuciscus idus (Golden orfe) - 3 d
- 0.05 mg/l(meta-Cresol)

Bioconcentration factor (BCF): 17 - 20

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Biological effects:
Hazard for drinking water supplies.
Change in the flavour characteristics of fish protein.
Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

UN number: 2076 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, liquid
Reportable Quantity (RQ): 100 lbs
Reportable Quantity (RQ): 100 lbs
Poison Inhalation Hazard: No

IMDG

UN number: 2076 Class: 6.1 (8) Packing group: II EMS-No: F-A, S-B
Proper shipping name: CRESOLS, LIQUID

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IATA
UN number: 2076 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, liquid

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
meta-Cresol	108-39-4	100	100
meta-Cresol	108-39-4	100	100 (D024)

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

meta-Cresol 108-39-4 >= 90 - <= 100 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

meta-Cresol 108-39-4 >= 90 - <= 100 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

meta-Cresol 108-39-4 >= 90 - <= 100 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

meta-Cresol 108-39-4 >= 90 - <= 100 %

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307
This product does not contain any priority pollutants related to the U.S. Clean Water Act

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US State Regulations

Massachusetts Right To Know

meta-Cresol	108-39-4

Pennsylvania Right To Know

meta-Cresol	108-39-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.12 Revision Date: 07/27/2024 Print Date: 07/28/2024

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SAFETY DATA SHEET

Version 6.5
Revision Date 02/07/2023
Print Date 02/07/2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Mercury

Product Number : 215457
Brand : SIGALD
Index-No. : 080-001-00-0
CAS-No. : 7439-97-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Scientific research and development, Reagent for analysis

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Inhalation (Category 2), H330
Reproductive toxicity (Category 1B), H360
Specific target organ toxicity - repeated exposure (Category 1), H372
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

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Hazard statement(s)

H330	Fatal if inhaled.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Hg
Molecular weight	:	200.59 g/mol
CAS-No.	:	7439-97-6
EC-No.	:	231-106-7
Index-No.	:	080-001-00-0

Component	Classification	Concentration
mercury		
	Acute Tox. 2; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H330, H360, H372, H400, H410 M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 100	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Mercury/mercury oxides.
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. In some instances, a mercury spill kit may be used. Please consult with your site EHS representative to determine the most appropriate clean up method.Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Store under inert gas.

Storage class
Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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Component	CAS-No.	Value	Control parameters	Basis
mercury	7439-97-6	C	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
	Remarks	Potential for dermal absorption		
		CEIL	1.0mg/10m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	0.05 mg/m3	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
		Skin notation		
		TWA	0.025 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

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Body Protection
protective clothing

Respiratory protection
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Color: silver, white
b)	Odor	odorless
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -38.87 °C (-37.97 °F) - lit.
f)	Initial boiling point and boiling range	356.6 °C 673.9 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	< 0.01 hPa at 20 °C (68 °F) 1 hPa at 126 °C(259 °F)
l)	Vapor density	6.93 - (Air = 1.0)
m)	Density	13.55 g/cm3 at 25 °C (77 °F)
	Relative density	No data available
n)	Water solubility	0.00006 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available

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s) Explosive properties No data available

t) Oxidizing properties none

9.2 Other safety information

Relative vapor density	6.93 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Risk of explosion with:
Acetylene
Alkali metals
Aluminum
Amines
Ammonia
chlorine dioxide
Potassium
sodium
oxalic acid
perchlorates
Risk of ignition or formation of inflammable gases or vapours with:
Chlorine
silanes
Oxygen
Generates dangerous gases or fumes in contact with:
Nitric acid
Exothermic reaction with:
Bromine
Metals
acetylidene
Oxygen

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Aluminum, Lead, Copper, silver, Zinc, zinc alloys, Tin

10.6 Hazardous decomposition products
In the event of fire: see section 5

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
LC50 Inhalation - Rat - male - 2 h - < 27 mg/m3 - vapor

Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Presumed human reproductive toxicant

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

11.2 Additional Information

RTECS: OV4550000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

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operates as MilliporeSigma in the US and Canada

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	mortality LC50 - Cyprinus carpio (Carp) - 0.160 mg/l - 96 h
Toxicity to fish(Chronic toxicity)	Remarks: No data available (mercury)

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation: Carassius auratus (goldfish) - 1,789 d - 0.25 µg/l(mercury)

Bioconcentration factor (BCF): 155,986

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)

UN number: 2809 Class: 8 (6.1) Packing group: III
Proper shipping name: Mercury
Reportable Quantity (RQ): 1 lbs
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG

UN number: 2809 Class: 8 (6.1) Packing group: III EMS-No: F-A, S-B
Proper shipping name: MERCURY
Marine pollutant : yes

IATA

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UN number: 2809 Class: 8 (6.1) Packing group: III
Proper shipping name: Mercury

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
mercury	7439-97-6	2015-11-23

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Reportable Quantity : D009 lbs

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
mercury	7439-97-6	2015-11-23

California Prop. 65 Components

, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.mercury	CAS-No. 7439-97-6	Revision Date 2013-12-20

SECTION 16: Other information

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Methyl chloride (Refrigerant gas R 40)

Safety Data Sheet P-4622

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1980 Revision date: 10/17/2016 Supersedes: 10/14/2015

SECTION: 1. Product and company identification

1.1. Product identifier

Product form : Substance

Name : Methyl chloride (Refrigerant gas R 40)

CAS No : 74-87-3

Formula : CH3Cl

Other means of identification : methylchloride, halocarbon 40, monochoromethane

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Industrial use. Use as directed.

1.3. Details of the supplier of the safety data sheet

Praxair, Inc.
10 Riverview Drive
Danbury, CT 06810-6268 - USA
T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146
www.praxair.com

1.4. Emergency telephone number

Emergency number : Onsite Emergency: 1-800-645-4633

CHEMTREC, 24hr/day 7days/week
— Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887
(collect calls accepted, Contract 17729)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Gas 1	H220
Liquefied gas	H280
Acute Tox. 4 (Inhalation:gas)	H332
Carc. 2	H351
STOT RE 2	H373

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS02 GHS04 GHS07 GHS08

Signal word (GHS-US) : DANGER

Hazard statements (GHS-US) : H220 - **EXTREMELY FLAMMABLE GAS**
H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
H332 - HARMFUL IF INHALED
H351 - SUSPECTED OF CAUSING CANCER
H373 - MAY CAUSE DAMAGE TO ORGANS (LUNG, KIDNEYS, LIVER, CENTRAL NERVOUS SYSTEM) THROUGH PROLONGED OR REPEATED EXPOSURE
CGA-HG04 - MAY FORM EXPLOSIVE MIXTURES WITH AIR
CGA-HG01 - MAY CAUSE FROSTBITE

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from Heat, Open flames, Sparks, Hot surfaces. - No smoking
P260 - Do not breathe gas

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P262 - Do not get in eyes, on skin, or on clothing
P271+P403 - Use and store only outdoors or in a well-ventilated place
P280+P284 - Wear protective gloves, protective clothing, eye protection, respiratory protection, and/or face protection
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely
P381 - Eliminate all ignition sources if safe to do so
P405 - Store locked up
P501 - Dispose of contents/container in accordance with container Supplier/owner instructions
CGA-PG05 - Use a back flow preventive device in the piping
CGA-PG12 - Do not open valve until connected to equipment prepared for use
CGA-PG06 - Close valve after each use and when empty
CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)

2.3. Other hazards

Other hazards not contributing to the classification : Contact with liquid may cause cold burns/frostbite.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Name	Product identifier	%
Methyl chloride (Refrigerant gas R 40) (Main constituent)	(CAS No) 74-87-3	100

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.

First-aid measures after skin contact : The liquid may cause frostbite. For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.

First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide, Dry chemical, Water spray or fog. Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : **EXTREMELY FLAMMABLE GAS**. If venting or leaking gas catches fire, do not extinguish flames. Flammable vapors may spread from leak, creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point. Explosive atmospheres may linger. Before entering an area, especially a confined area, check the atmosphere with an appropriate device.

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Explosion hazard	:	**EXTREMELY FLAMMABLE GAS**. Forms explosive mixtures with air and oxidizing agents.
Reactivity	:	No reactivity hazard other than the effects described in sub-sections below.

5.3. Advice for firefighters

Firefighting instructions	:	**DANGER! Toxic, flammable liquefied gas** Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.
Special protective equipment for fire fighters	:	Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
Other information	:	Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	**DANGER: Flammable, liquefied gas.** FORMS EXPLOSIVE MIXTURES WITH AIR. Immediately evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if safe to do so. Reduce vapors with fog or fine water spray, taking care not to spread liquid with water. Shut off flow if safe to do so. Ventilate area or move container to a well-ventilated area. Flammable vapors may spread from leak and could explode if reignited by sparks or flames. Explosive atmospheres may linger. Before entering area, especially confined areas, check atmosphere with an appropriate device.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use only explosion-proof equipment Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g, wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store only where temperature will not exceed 125°F (52°C). Post “No Smoking/No Open Flames” signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g, NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Methyl chloride (Refrigerant gas R 40) (74-87-3)		
ACGIH	ACGIH TLV-TWA (ppm)	50 ppm
ACGIH	ACGIH TLV-STEL (ppm)	100 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm
USA IDLH	US IDLH (mg/m³)	≈ mg/m³
USA IDLH	US IDLH (ppm)	2000 ppm

8.2. Exposure controls

Appropriate engineering controls : Use an explosion-proof local exhaust system. Local exhaust and general ventilation must be adequate to meet exposure standards. MECHANICAL (GENERAL): **Inadequate - Use only in a closed system.** Use explosion proof equipment and lighting. A canopy-type, forced-draft fume hood is preferred.

Eye protection : Wear safety glasses when handling cylinders; vapor-proof goggles and a face shield during cylinder changeout or whenever contact with product is possible. Select eye protection in accordance with OSHA 29 CFR 1910.133.

Skin and body protection : Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138.

Respiratory protection : When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Thermal hazard protection : Wear cold insulating gloves when transfilling or breaking transfer connections.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas

Appearance : Colorless gas.

Molecular mass : 50.5 g/mol

Color : Colorless.

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Odor	:	Sweetish. Ethereal.
Odor threshold	:	< 0.01 ppm
pH	:	Not applicable.
Relative evaporation rate (butyl acetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	Not applicable.
Melting point	:	-97.7 °C (-143.86°F)
Freezing point	:	No data available
Boiling point	:	-24.2 °C (-11.6°F)
Flash point	:	Not applicable.
Critical temperature	:	143.1 °C (289.6°F)
Auto-ignition temperature	:	632 °C (1170°F)
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	8.1 - 17.4 vol %
Vapor pressure	:	5.1 bar (73.4 psia)(@21.1°C/70°F)
Critical pressure	:	66.5 bar (966 psia)
Relative vapor density at 20 °C	:	No data available
Relative density	:	0.92 (at 20°C/68°F)
Density	:	0.921 g/cm³ (at 20 °C)
Relative gas density	:	1.743 (at 21.1°C/70°F, 1 atm)
Solubility	:	Water: 6310 mg/l
Log Pow	:	0.91
Log Kow	:	Not applicable.
Viscosity, kinematic	:	Not applicable.
Viscosity, dynamic	:	Not applicable.
Explosive properties	:	Not applicable.
Oxidizing properties	:	None.
Explosion limits	:	No data available

9.2. Other information

Gas group	:	Liquefied gas
Additional information	:	Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

May occur.

10.4. Conditions to avoid

Avoid temperature above 752°F (400°C).

10.5. Incompatible materials

May react with aluminium. Reaction with aluminum may form pyrophoric trimethyl aluminum or aluminum alkyls. Oxidizing agents. Magnesium. Zinc. Potassium. Sodium. Aluminum chloride. Ethylene. Moisture. Rubber.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Chlorine. On heating/burning: release of toxic and corrosive gases/vapors hydrogen chloride : formation of small quantities of phosgene.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation:gas: HARMFUL IF INHALED.

Methyl chloride (Refrigerant gas R 40) (\f)74-87-3	
LD50 oral rat	1800 mg/kg
LC50 inhalation rat (mg/l)	5300 mg/m³ (Exposure time: 4 h)
LC50 inhalation rat (ppm)	8300 ppm/1h
ATE US (oral)	1800.000 mg/kg body weight
ATE US (gases)	8300.000 ppm/1h

Skin corrosion/irritation : Not classified

pH: Not applicable.

Serious eye damage/irritation : Not classified

pH: Not applicable.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : SUSPECTED OF CAUSING CANCER.

Methyl chloride (Refrigerant gas R 40) (74-87-3)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : MAY CAUSE DAMAGE TO ORGANS (LUNG, KIDNEYS, LIVER, CENTRAL NERVOUS SYSTEM) THROUGH PROLONGED OR REPEATED EXPOSURE.

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No known ecological damage caused by this product.

Methyl chloride (Refrigerant gas R 40) (74-87-3)	
LC50 fish 1	550 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2. Persistence and degradability

Methyl chloride (Refrigerant gas R 40) (74-87-3)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.

12.3. Bioaccumulative potential

Methyl chloride (Refrigerant gas R 40) (74-87-3)	
Log Pow	0.91
Log Kow	Not applicable.
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.

12.4. Mobility in soil

Methyl chloride (Refrigerant gas R 40) (74-87-3)	
Mobility in soil	No data available.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.

12.5. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.

Effect on ozone layer : None

Global warming potential [CO2=1] : 13

Effect on the global warming : Contains Fluorinated greenhouse gases covered by the Kyoto protocol

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII. U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring. U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261. U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents. U.S. - RCRA (Resource Conservation & Recovery Act) - Part 268 Appendix III - Halogenated Organic Compounds (HOCs). U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards. U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring. U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics.

Waste disposal recommendations : Do not attempt to dispose of residual or unused quantities. Return container to supplier.

SECTION 14: Transport information

In accordance with DOT

Transport document description : UN1063 Methyl chloride, 2.1

UN-No.(DOT) : UN1063

Proper Shipping Name (DOT) : Methyl chloride

Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

Hazard labels (DOT) : 2.1 - Flammable gas



DOT Special Provisions (49 CFR 172.102) : N86 - UN pressure receptacles made of aluminum alloy are not authorized
T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter

Additional information

Emergency Response Guide (ERG) Number : 115

Other information : No supplementary information available.

Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: - Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

Transport by sea

UN-No. (IMDG) : 1063

Proper Shipping Name (IMDG) : METHYL CHLORIDE (REFRIGERANT GAS R 40)

Class (IMDG) : 2 - Gases

MFAG-No : 115

Air transport

UN-No. (IATA) : 1063

Proper Shipping Name (IATA) : Methyl chloride

Class (IATA) : 2

Civil Aeronautics Law : Gases under pressure/Gases flammable under pressure

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SECTION 15: Regulatory information

15.1. US Federal regulations

Methyl chloride (Refrigerant gas R 40) (74-87-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Sudden release of pressure hazard Fire hazard
SARA Section 313 - Emission Reporting	1.0 %

15.2. International regulations

CANADA

Methyl chloride (Refrigerant gas R 40) (74-87-3)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Methyl chloride (Refrigerant gas R 40) (74-87-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.2.2. National regulations

Methyl chloride (Refrigerant gas R 40) (74-87-3)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

Methyl chloride (Refrigerant gas R 40)(74-87-3)	
U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Yes
State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List

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SECTION 16: Other information

Other information : When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc, it is the user's obligation to determine the conditions of safe use of the product

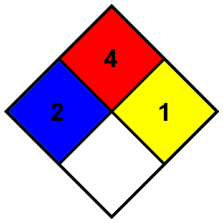
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NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 4 Severe Hazard

Physical : 2 Moderate Hazard

SDS US (GHS HazCom 2012) - Praxair

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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MATHESON
ask. . .The Gas Professionals™

Safety Data Sheet

Material Name METHYL CHLOROFORM **SDS ID: MAT14370**

* * *Section 1 - IDENTIFICATION* * *

Product Identifier: METHYL CHLOROFORM

Trade Names/Synonyms

MTG MSDS 219; 1,1,1-TRICHLOROETHANE; ALPHA-TRICHLOROETHANE; AEROTHENE TT; METHYLTRICHLOROMETHANE; METHYLCHLOROFORM; TRICHLOROMETHYLMETHANE; TRICHLOROETHANE; ETHANE, 1,1,1-TRICHLOROETHANE; CHLORTEN; 1,1,1-TRICHLORETHANE; UN 2831; C2H3Cl3

Chemical Family

halogenated, aliphatic

Recommended Use

industrial

Restrictions on Use

None known.

Manufacturer Information

MATHESON TRI-GAS, INC.
150 Allen Road, Suite 302
Basking Ridge, NJ 07920

General Information: 1-800-416-2505
Emergency #: 1-800-424-9300 (CHEMTREC)
Outside the US: 703-527-3887 (Call collect)

* * *Section 2 - HAZARDS IDENTIFICATION* * *

Classification in accordance with 29 CFR 1910.1200

Acute Toxicity (Inhalation), Category 4
Skin Corrosion / Irritation, Category 2
Eye Damage / Irritation, Category 2A
Toxic to Reproduction, Category 2
Specific Target Organ Toxicity - Single Exposure, Category 1 (central nervous system and heart)
Specific Target Organ Toxicity - Single Exposure, Category 3 (respiratory system)
Specific Target Organ Toxicity - Repeated Exposure, Category 1 (central nervous system, heart, and liver)
Specific Target Organ Toxicity - Repeated Exposure, Category 2 (brain, lungs, and nervous system)
Hazardous to the Aquatic Environment - Acute Hazard, Category 2
Hazardous to the Aquatic Environment - Chronic Hazard, Category 2
Hazardous for the ozone layer, Category 1

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statement(s)

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
Suspected of damaging fertility or the unborn child
Causes damage to central nervous system and heart.
May cause respiratory tract irritation.
Causes damage to central nervous system, heart, and liver through prolonged or repeated exposure.
May cause damage to brain, lungs, nervous system through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects
Harms public health and the environment by destroying ozone in the upper atmosphere

Precautionary Statement(s)

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response

IF exposed: Call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of in accordance with applicable regulations.
Refer to manufacturer/supplier for information on recovery/recycling.

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

CAS	Component	Percent
71-55-6	METHYL CHLOROFORM	100

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Trichloroethane (25323-89-1).

* * *Section 4 - FIRST AID MEASURES* * *

Description of Necessary Measures

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eyes

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

Ingestion

If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

Most Important Symptoms/Effects

Acute

respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, central nervous system damage, heart damage

Delayed

central nervous system damage, heart damage, liver damage, reproductive effects, lung damage, brain damage, nervous system damage

Indication of Immediate Medical Attention and Special Treatment

For inhalation, consider oxygen.

* * *Section 5 - FIRE FIGHTING MEASURES* * *

Suitable Extinguishing Media

carbon dioxide, regular dry chemical, water spray

Large fires: Use dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

Specific Hazards Arising from the Chemical

Slight fire hazard.

Hazardous Combustion Products

Combustion: hydrogen chloride, phosgene, oxides of carbon

Fire Fighting Measures

Move container from fire area if it can be done without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with water spray until well after the fire is out. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Stay away from the ends of tanks. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile).

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

* * *Section 6 - ACCIDENTAL RELEASE MEASURES* * *

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

Avoid heat, flames, sparks and other sources of ignition. Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. **Small spills:** Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. **Large spills:** Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

* * *Section 7 - HANDLING AND STORAGE* * *

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid release to the environment.

Conditions for Safe Storage, including any Incompatibilities

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in a cool, dry place. Keep separated from incompatible substances.

Incompatibilities combustible materials, bases, metals, oxidizing materials

* * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

Component Exposure Limits

METHYL CHLOROFORM (71-55-6)

ACGIH:	350 ppm TWA
	450 ppm STEL
Europe:	100 ppm TWA; 555 mg/m3 TWA
	200 ppm STEL; 1110 mg/m3 STEL
OSHA (Final):	350 ppm TWA; 1900 mg/m3 TWA
OSHA (Vacated):	350 ppm TWA; 1900 mg/m3 TWA
	450 ppm STEL; 2450 mg/m3 STEL
NIOSH:	350 ppm Ceiling (15 min); 1900 mg/m3 Ceiling (15 min)

Component Biological Limit Values

METHYL CHLOROFORM (71-55-6)

ACGIH: 40 ppm Medium: end-exhaled air Time: prior to last shift of workweek Parameter: Methyl chloroform; 10 mg/L Medium: urine Time: end of workweek Parameter: Trichloroacetic acid (nonspecific, semi-quantitative); 30 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Total trichloroethanol (nonspecific, semi-quantitative); 1 mg/L Medium: blood Time: end of shift at end of workweek Parameter: Total trichloroethanol (nonspecific)

IDLH

700 ppm

Appropriate Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Respiratory Protection

The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA.

700 ppm

Any supplied-air respirator.

Any self-contained breathing apparatus with a full facepiece.
Emergency or planned entry into unknown concentrations or IDLH conditions -
Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.
Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.
Escape -
Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister.
Any appropriate escape-type, self-contained breathing apparatus.

* * *Section 9 - PHYSICAL AND CHEMICAL PROPERTIES* * *

Physical State:	Liquid	**Appearance:**	clear, colorless liquid
Color:	colorless	**Physical Form:**	volatile liquid
Odor:	sweet odor	**Odor Threshold:**	44 - 100 ppm
pH:	Not available	**Melting/Freezing Point:**	-32 °C
Boiling Point:	74 °C	**Flash Point:**	>93.3 °C
Decomposition:	Not available	**Evaporation Rate:**	5.0 (butyl acetate=1)
LEL:	7.5 %	**UEL:**	12.5 %
Vapor Pressure:	100 mmHg @ 20 °C	**Henry's Law Constant:**	0.072 atm-cu m/mole @ 25°C
Vapor Density (air = 1):	4.55	**Specific Gravity (water=1):**	1.3390
Water Solubility:	0.078 % @ 25 °C	**Log KOW:**	2.49
KOC:	17823.79 estimated from water solubility	**Auto Ignition:**	537 °C
Viscosity:	0.858 cP @20 °C	**Volatility:**	100%
Molecular Weight:	133.40	**Molecular Formula:**	C-H3-C-Cl3

Other Property Information

No additional information is available.

Solvent Solubility

Soluble: acetone, benzene, chloroform, methanol, ethanol, carbon disulfide, ether, carbon tetrachloride, heptane

* * *Section 10 - STABILITY AND REACTIVITY* * *

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

Incompatible Materials

combustible materials, bases, metals, oxidizing materials

Hazardous Decomposition

Combustion: hydrogen chloride, phosgene, oxides of carbon

* * *Section 11 - TOXICOLOGICAL INFORMATION* * *

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

METHYL CHLOROFORM (71-55-6)

Dermal LD50 Rabbit >15800 mg/kg; Inhalation LC50 Rat 18000 ppm 4 h; Oral LD50 Rat >2000 mg/kg

RTECS Acute Toxicity (selected)

The components of this material have been reviewed, and RTECS publishes the following endpoints:

METHYL CHLOROFORM (71-55-6)

Inhalation: 24400 mg/m3 Inhalation Cat LC50; 29492 ppm/10 minute(s) Inhalation Mouse LC50; 3911 ppm/2 hour Inhalation Mouse LC50
20000 ppm/2 hour Inhalation Rat LC50; 14250 ppm/7 hour Inhalation Rat LC50; 17000 ppm/4 hour Inhalation Rat LC50

Acute Toxicity Level

METHYL CHLOROFORM (71-55-6)

Slightly Toxic: inhalation, dermal absorption, ingestion

Information on Likely Routes of Exposure

Inhalation

irritation, changes in blood pressure, nausea, vomiting, diarrhea, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, mood swings, loss of coordination, blood disorders, heart disorders, kidney damage, liver damage, convulsions, unconsciousness, coma, heart damage, reproductive effects

Ingestion

irritation, nausea, vomiting, diarrhea, stomach pain, irregular heartbeat, headache, drowsiness, dizziness, disorientation, loss of coordination, kidney damage, liver damage, convulsions, unconsciousness, coma, reproductive effects

Skin Contact

irritation (possibly severe)

Eye Contact

irritation

Immediate Effects

respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, central nervous system damage, heart damage

Delayed Effects

central nervous system damage, heart damage, liver damage, reproductive effects, brain damage, lung damage, nervous system damage

Medical Conditions Aggravated by Exposure

heart or cardiovascular disorders, kidney disorders, liver disorders, skin disorders and allergies

Irritation/Corrosivity Data

respiratory tract irritation, skin irritation, eye irritation

RTECS Irritation

The components of this material have been reviewed, and RTECS publishes the following endpoints:

METHYL CHLOROFORM (71-55-6)

450 ppm/8 hour Eyes Man; 100 mg Eyes Rabbit mild; 2 mg/24 hour Eyes Rabbit severe; 5 gm/12 day(s) intermittent Skin Rabbit mild; 20 mg/24 hour Skin Rabbit moderate

Local Effects

METHYL CHLOROFORM (71-55-6)

Irritant: inhalation, skin, eye

Target Organs

METHYL CHLOROFORM (71-55-6)

central nervous system

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Carcinogenicity

Component Carcinogenicity

METHYL CHLOROFORM (71-55-6)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 20 [1979] (Group 3 (not classifiable))

RTECS Mutagenic

The components of this material have been reviewed, and RTECS publishes data for one or more components.

Reproductive Effects Data

Available data characterizes this substance as a reproductive hazard.

RTECS Reproductive Effects

The components of this material have been reviewed, and RTECS publishes the following endpoints:

METHYL CHLOROFORM (71-55-6)

2100 ppm Inhalation Rat TCLo (6 hour, pregnant 1-20 day(s)); 7000 ppm Inhalation Rat TCLo (3 hour, pregnant 13-19 day(s)); 43 mg/kg Oral Rat TDLo (pregnant 1-22 day(s), 21 day(s))

RTECS Tumorigenic

The components of this material have been reviewed, and RTECS publishes data for one or more components.

Additional Data

Alcohol may enhance the toxic effects. Stimulants such as epinephrine may induce ventricular fibrillation.

Specific Target Organ Toxicity - Single Exposure

central nervous system, heart, respiratory system

Specific Target Organ Toxicity - Repeated Exposure

central nervous system, heart, liver, brain, lungs, nervous system

Aspiration Hazard

Not expected to be an aspiration hazard.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

METHYL CHLOROFORM (71-55-6)

Fish: 96 Hr LC50 Pimephales promelas: 35.2 - 50.7 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 57 - 90 mg/L [static] (juvenile); 96 Hr LC50 Cyprinus carpio: 56 mg/L [flow-through]; 96 Hr LC50 Poecilia reticulata: 52.9 mg/L [flow-through]; 96 Hr LC50 Poecilia reticulata: 69.7 mg/L [static]; 96 Hr LC50 Pimephales promelas: 91 - 126 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 46 - 59 mg/L [static]

Algae: 96 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L

Invertebrate: 48 Hr LC50 Daphnia magna: >530 mg/L; 48 Hr EC50 Daphnia magna: 2384 mg/L; 48 Hr EC50 Daphnia magna: 9.7 - 12.8 mg/L [Static]

Persistence and Degradability

This material may biodegrade in soil and water.

Bioaccumulative Potential

Bioconcentration potential in aquatic organisms is low based on BCF value of 0.7-4.9.

Mobility

Expected to have high mobility in soil.

* * *Section 13 - DISPOSAL CONSIDERATIONS* * *

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

METHYL CHLOROFORM (71-55-6)

RCRA: waste number U226

* * *Section 14 - TRANSPORT INFORMATION* * *

US DOT Information

Shipping Name: 1,1,1-Trichloroethane
UN/NA #: UN2831 **Hazard Class:** 6.1 **Packing Group:** III
Required Label(s): 6.1

IMDG Information

Shipping Name: 1,1,1-Trichloroethane
UN #: UN2831 **Hazard Class:** 6.1 **Packing Group:** III
Required Label(s): 6.1

* * *Section 15 - REGULATORY INFORMATION* * *

Component Analysis

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

METHYL CHLOROFORM (71-55-6)

SARA 313: 1.0 % de minimis concentration
CERCLA: 1000 lb final RQ; 454 kg final RQ

SARA 311/312 Hazardous Categories

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactive:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
METHYL CHLOROFORM	71-55-6	Yes	Yes	Yes	Yes	Yes

Not regulated under California Proposition 65

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
METHYL CHLOROFORM	71-55-6	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

* * *Section 16 - OTHER INFORMATION* * *

NFPA Ratings: Health: 2 **Fire:** 1 **Reactivity:** 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Other Information

Matheson Tri-Gas, Inc. makes no express or implied warranties, guarantees or representations regarding the product or the information herein, including but not limited to any implied warranty or merchantability or fitness for use. Matheson Tri-Gas, Inc. shall not be liable for any personal injury, property or other damages of any nature, whether compensatory, consequential, exemplary, or otherwise, resulting from any publication, use or reliance upon the information herein.

End of Sheet MAT14370

Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 27-Jan-2010 **Revision Date** 02-Oct-2015 **Revision Number** 2

1. Identification

Product Name **Methylene chloride**

Cat No. : **D37-1; D37-4; D37-20; D37-200; D37-200LC; D37-500; D37FB-19; D37FB-50; D37FB-115; D37FB-200; D37POP-19; D37POPB-50; D37POPB-200; D37RB-19; D37RB-50; D37RB-115; D37RB-200; D37RS-19; D37RS-28; D37RS-50; D37RS-115; D37RS-200; D37SK-4; D37SK-4LC; D37SS-28; D37SS-50; D37SS-115; D37SS-200; D37SS-1350**

Synonyms Dichloromethane; DCM

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS), Respiratory system.	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Liver, Kidney, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
Causes skin irritation
Causes serious eye irritation

May cause respiratory irritation
May cause drowsiness or dizziness
May cause cancer
May cause damage to organs through prolonged or repeated exposure



Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)

WARNING! This product contains a chemical known in the State of California to cause cancer, birth defects or other reproductive harm.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Methylene chloride	75-09-2	>99.5
Methyl alcohol	67-56-1	0 - 0.4
Cyclohexene	110-83-8	0 - 0.01
2-Methyl-2-butene	513-35-9	0 - 0.01

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects Breathing difficulties. . Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature 556 °C / 1032.8 °F

Explosion Limits
Upper 23 vol %
Lower 13 vol %
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2) Hydrogen chloride gas Phosgene
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological information.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Use only under a chemical fume hood.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene chloride	TWA: 50 ppm	(Vacated) TWA: 500 ppm (Vacated) STEL: 2000 ppm (Vacated) Ceiling: 1000 ppm TWA: 25 ppm STEL: 125 ppm	IDLH: 2300 ppm
Methyl alcohol	TWA: 200 ppm STEL: 250 ppm Skin	(Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m³ (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m³ Skin TWA: 200 ppm TWA: 260 mg/m³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 325 mg/m³
Cyclohexene	TWA: 300 ppm	(Vacated) TWA: 300 ppm (Vacated) TWA: 1015 mg/m³ TWA: 300 ppm TWA: 1015 mg/m³	IDLH: 2000 ppm TWA: 300 ppm TWA: 1015 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Methylene chloride	TWA: 50 ppm TWA: 174 mg/m³	TWA: 100 ppm TWA: 330 mg/m³ STEL: 500 ppm STEL: 1740 mg/m³	TWA: 50 ppm
Methyl alcohol	TWA: 200 ppm TWA: 262 mg/m³ STEL: 250 ppm STEL: 328 mg/m³ Skin	TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 310 mg/m³	TWA: 200 ppm STEL: 250 ppm Skin
Cyclohexene	TWA: 300 ppm TWA: 1010 mg/m³	TWA: 300 ppm TWA: 1015 mg/m³	TWA: 300 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	sweet
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	-97 °C / -142.6 °F
Boiling Point/Range	39 °C / 102.2 °F
Flash Point	No information available

Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	23 vol %
Lower	13 vol %
Vapor Pressure	20 mmHg @ 3502°C
Vapor Density	2.93 (Air = 1.0)
Specific Gravity	1.33
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	556 °C / 1032.8 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C H2 Cl2
Molecular Weight	84.93

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Strong oxidizing agents, Strong acids, Amines

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2), Hydrogen chloride gas, Phosgene

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methylene chloride	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	53 mg/L (Rat) 6 h 76000 mg/m³ (Rat) 4 h
Methyl alcohol	LD50 = 6200 mg/kg (Rat)	LD50 = 15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h
Cyclohexene	LD50 = 2400 µL/kg (Rat)	>200 mg/kg (Rat)	>21.6 mg/L/4h (rat)
2-Methyl-2-butene	700-2600 mg/kg (Rat)	>2000 mg/kg (Rat)	LC50 > 61000 ppm (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Methylene chloride	75-09-2	Group 2A	Reasonably Anticipated	A3	X	A3
Methyl alcohol	67-56-1	Not listed	Not listed	Not listed	Not listed	Not listed

Cyclohexene	110-83-8	Not listed	Not listed	Not listed	Not listed	Not listed
2-Methyl-2-butene	513-35-9	Not listed	Not listed	Not listed	Not listed	Not listed

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

Mexico - Occupational Exposure Limits - Carcinogens
A1 - Confirmed Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Confirmed Animal Carcinogen
A4 - Not Classifiable as a Human Carcinogen
A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects Mutagenic effects have occured in microorganisms.

Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental Effects Developmental effects have occurred in experimental animals.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS) Respiratory system
STOT - repeated exposure Liver Kidney Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methylene chloride	EC50:>660 mg/L/96h	Pimephales promelas: LC50:193 mg/L/96h	EC50: 1 mg/L/24 h EC50: 2.88 mg/L/15 min	EC50: 140 mg/L/48h
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	EC50 > 10000 mg/L 24h
Cyclohexene	Not listed	Poecillia reticulata: 7.1 mg/L/96h	Not listed	Daphnia: EC50: 5.3 mg/L/48h
2-Methyl-2-butene	Not listed	Not listed	Not listed	EC50: = 3 mg/L, 48h (Daphnia magna)

Persistence and Degradability Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Methylene chloride	1.25
Methyl alcohol	-0.74

Cyclohexene	3.27

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methylene chloride - 75-09-2	U080	-
Methyl alcohol - 67-56-1	U154	-

14. Transport information

DOT

UN-No UN1593
Proper Shipping Name DICHLOROMETHANE
Hazard Class 6.1
Packing Group III

TDG

UN-No UN1593
Proper Shipping Name DICHLOROMETHANE
Hazard Class 6.1
Packing Group III

IATA

UN-No UN1593
Proper Shipping Name Dichloromethane
Hazard Class 6.1
Packing Group III

IMDG/IMO

UN-No UN1593
Proper Shipping Name Dichloromethane
Hazard Class 6.1
Packing Group III

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Methylene chloride	X	X	-	200-838-9	-		X	X	X	X	X
Methyl alcohol	X	X	-	200-659-6	-		X	X	X	X	X
Cyclohexene	X	X	-	203-807-8	-		X	X	X	X	X
2-Methyl-2-butene	X	X	-	208-156-3	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methylene chloride	75-09-2	>99.5	0.1
Methyl alcohol	67-56-1	0 - 0.4	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Methylene chloride	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methylene chloride	X		-
Methyl alcohol	X		-

OSHA Occupational Safety and Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Methylene chloride	125 ppm STEL 12.5 ppm Action Level 25 ppm TWA	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methylene chloride	1000 lb 1 lb	-
Methyl alcohol	5000 lb	-

California Proposition 65 This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Methylene chloride	75-09-2	Carcinogen	200 µg/day 50 µg/day	Carcinogen
Methyl alcohol	67-56-1	Developmental	-	Developmental

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methylene chloride	X	X	X	X	X
Methyl alcohol	X	X	X	X	X
Cyclohexene	X	X	X	-	X
2-Methyl-2-butene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1B Toxic materials
D2A Very toxic materials



16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 27-Jan-2010
Revision Date 02-Oct-2015
Print Date 02-Oct-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 5.5
Revision Date 06/02/2016
Print Date 06/21/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : *m*-Xylene

Product Number : 95670
Brand : Sigma-Aldrich
Index-No. : 601-022-00-9

CAS-No. : 108-38-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226
Acute toxicity, Dermal (Category 4), H312
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Aspiration hazard (Category 1), H304
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,3-Dimethylbenzene
Formula	:	C_8H_{10}
Molecular weight	:	106.17 g/mol
CAS-No.	:	108-38-3
EC-No.	:	203-576-3
Index-No.	:	601-022-00-9

Hazardous components

Component	Classification	Concentration
m-Xylene		
	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Asp. Tox. 1; Aquatic Acute 3; Aquatic Chronic 3; H226, H304, H312, H315, H319, H335, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
m-Xylene	108-38-3	TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	100.000000 ppm 435.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	150.000000 ppm 655.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	100.000000 ppm 435.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section)		

		Not classifiable as a human carcinogen		
		TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	100 ppm 435 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
m-Xylene	108-38-3	Methylhippuric acids	1.5g/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			
		Methylhippuric acids	1,500.0000 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 30 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -48 °C (-54 °F) - lit.
f)	Initial boiling point and boiling range	138 - 139 °C (280 - 282 °F) - lit.
g)	Flash point	25.0 °C (77.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7 %(V) Lower explosion limit: 1.1 %(V)
k)	Vapour pressure	8.0 hPa (6.0 mmHg) at 20.0 °C (68.0 °F) 21.3 hPa (16.0 mmHg) at 37.7 °C (99.9 °F)
l)	Vapour density	No data available
m)	Relative density	0.868 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.2 at 20 °C (68 °F)
p)	Auto-ignition temperature	465.0 °C (869.0 °F) 528.0 °C (982.4 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available

t) Oxidizing properties No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male - 6,602 mg/kg
(OECD Test Guideline 401)

LC50 Inhalation - Rat - male - 4 h - 6700 ppm
(Directive 67/548/EEC, Annex V, B.2.)

LD50 Dermal - Rabbit - male - 12,126 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Severe eye irritation - 24 h

Respiratory or skin sensitisation
- Mouse
Result: Does not cause skin sensitisation.
(OECD Test Guideline 429)

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (m-Xylene)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
May be fatal if swallowed and enters airways.

Additional Information
RTECS: ZE2275000

Liver injury may occur., Kidney injury may occur., Blood disorders, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression, Dermatitis, Gastrointestinal disturbance

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LC50 - Fish - 11.23 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Remarks: No data available
Toxicity to algae	Remarks: No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1307 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: XYLENES

IATA
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
m-Xylene	108-38-3	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
m-Xylene	108-38-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
m-Xylene	108-38-3	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
m-Xylene	108-38-3	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapour.

H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 06/02/2016 Print Date: 06/21/2016

SAFETY DATA SHEET

Version 6.12
Revision Date 09/07/2024
Print Date 09/08/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Naphthalene

Product Number : 147141
Brand : Aldrich
Index-No. : 601-052-00-2
CAS-No. : 91-20-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 2), H228
Carcinogenicity (Category 2), H351
Short-term (acute) aquatic hazard (Category 1), H400

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Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Warning

Hazard Statements

H228	Flammable solid.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	C10H8
Molecular weight	:	128.17 g/mol
CAS-No.	:	91-20-3
EC-No.	:	202-049-5
Index-No.	:	601-052-00-2

Component	Classification	Concentration
Naphthalene		
	Flam. Sol. 2; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H228, H351, H400, H410	<= 100 %

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For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Naphthalene	91-20-3	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	10 ppm 50 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 75 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 50 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	0.1 ppm 0.5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Naphthalene	91-20-3	1-Naphthol + 2-Naphthol			ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber

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Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter A-(P3)
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: flakes, granules Color: white
b)	Odor	aromatic
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 80 - 82 °C (176 - 180 °F) - lit.
f)	Initial boiling point and boiling range	218 °C 424 °F - lit.
g)	Flash point	78.5 °C (173.3 °F) - closed cup - ISO 2719
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 2. - Flammability (solids)
j)	Upper/lower flammability or	Upper explosion limit: 5.9 %(V) Lower explosion limit: 0.9 %(V)

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	explosive limits	
k)	Vapor pressure	0.072 hPa at 20 °C (68 °F) - OECD Test Guideline 104
l)	Vapor density	No data available
m)	Density	1.08 g/cm3 at 24.7 °C (76.5 °F) - OECD Test Guideline 109
	Relative density	No data available
n)	Water solubility	0.0308 g/l at 25 °C (77 °F) - OECD Test Guideline 105 - slightly soluble
o)	Partition coefficient: n-octanol/water	log Pow: 3.4 at 25 °C (77 °F) - OECD Test Guideline 107 - Bioaccumulation is not expected.
p)	Autoignition temperature	526 - 587 °C (979 - 1089 °F) at 1,013 hPa - DIN 51794
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

Surface tension	31.8 mN/m at 100.0 °C (212.0 °F)

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:
Oxidizing agents
chromium(VI) oxide
benzoyl chloride
aluminium chloride
Risk of explosion with:
nitrogen oxides

10.4 Conditions to avoid

Heat, flames and sparks.
Strong heating.

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10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
LC50 Inhalation - Rat - male and female - 4 h - > 0.4 mg/l - vapor

(OECD Test Guideline 403)
LD50 Dermal - Rabbit - 20,000 mg/kg
Remarks: (RTECS)

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation - 24 h
Remarks: (ECHA)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation - 24 h
Remarks: (ECHA)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
(OECD Test Guideline 406)

Germ cell mutagenicity
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster ovary cells
Metabolic activation: Metabolic activation
Method: OECD Test Guideline 473
Result: positive
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: unscheduled DNA synthesis assay
Species: Rat
Cell type: Liver cells
Application Route: Oral
Method: OECD Test Guideline 486
Result: negative

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Test Type: Micronucleus test
Species: Mouse
Cell type: Bone marrow
Application Route: Intraperitoneal
Method: US-EPA
Result: negative
Remarks: (ECHA)

Carcinogenicity
Suspected of causing cancer.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Naphthalene)

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. (Naphthalene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Naphthalene)

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. (Naphthalene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 91 Days - NOAEL (No observed adverse effect level) - 200 mg/kg - LOAEL (Lowest observed adverse effect level) - 400 mg/kg

Repeated dose toxicity - Mouse - male and female - Oral - 90 Days - NOAEL (No observed adverse effect level) - 100 mg/kg

Repeated dose toxicity - Rat - male and female - Dermal - 90 Days - NOAEL (No observed adverse effect level) - 1,000 mg/kg

Repeated dose toxicity - Rat - male and female - inhalation (vapor) - 90 Days - NOAEL (No observed adverse effect level) - 300 mg/kg

RTECS: QJ0525000
Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Naphthalene is retinotoxic and systemic absorption of its vapors above 15ppm, may result in:, cataracts,

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optic neuritis, corneal injury, Eye irritation, Ingestion may provoke the following symptoms:, hemolytic anemia, hemoglobinuria, Nausea, Headache, Vomiting, Gastrointestinal disturbance, Convulsions, anemia, Kidney injury may occur., Seizures., Coma.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

Headache
Stomach/intestinal disorders
Tremors
Convulsions
Changes in the blood count

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Heart -

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 1.6 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 2.16 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata (green algae) - 2.96 mg/l - 4 h (US-EPA) Remarks: (ECHA)
Toxicity to fish(Chronic toxicity)	flow-through test LC50 - Oncorhynchus kisutch (coho salmon) - 2.1 mg/l - 96 h Remarks: (ECHA)
	flow-through test NOEC - Oncorhynchus kisutch (coho salmon) - 0.37 mg/l - 40 Days Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	static test NOEC - Daphnia pulex (Water flea) - 0.59 mg/l - 125 d Remarks: (ECHA)

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12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d
Result: 2 % - Not readily biodegradable.
(OECD Test Guideline 302C)

12.3 Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 56 d
at 25 °C(Naphthalene)

Bioconcentration factor (BCF): 36.5 - 168
(OECD Test Guideline 305)

Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

UN number: 1334 Class: 4.1 Packing group: III
Proper shipping name: Naphthalene, refined
Reportable Quantity (RQ): 100 lbs
Marine pollutant: yes Poison Inhalation Hazard: No

IMDG

UN number: 1334 Class: 4.1 Packing group: III EMS-No: F-A, S-G
Proper shipping name: NAPHTHALENE, REFINED

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Marine pollutant : yes

IATA
UN number: 1334 Class: 4.1 Packing group: III
Proper shipping name: Naphthalene, refined

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Naphthalene	91-20-3	100	100

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

Naphthalene 91-20-3

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.12 Revision Date: 09/07/2024 Print Date: 09/08/2024

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SAFETY DATA SHEET

Revision Date 03-May-2012 **Revision Number** 2

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description: **n-Butylbenzene**
Cat No. **107850000; 107850050; 107850500; 107852500**
Synonyms 1-Phenylbutane

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium
E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01
For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300
CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Flammable liquids.	Category 3

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

R-phrase(s) none

Label Elements

SECTION 2. HAZARDS IDENTIFICATION



Signal Word **Warning**

Hazard Statements
H226 - Flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008)
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Butyl benzene 104-51-8	EEC No. 203-209-7	> 99	104-51-8	-	Flam. Liq. 3 (H226)	-

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Ingestion Do not induce vomiting. Clean mouth with water. Aspiration hazard. Get medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Notes to Physician Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media
Water spray. Carbon dioxide (CO_2). Dry chemical. Use water spray to cool unopened containers. chemical foam. Do not use a solid water stream as it may scatter and spread fire.

Extinguishing media which must not be used for safety reasons
No information available.

Special hazards arising from the substance or mixture

Combustible material. Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Use explosion-proof equipment. Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological limit values	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.
Derived No Effect Level (DNEL)	No information available.
Predicted No Effect Concentration (PNEC)	No information available.

Exposure controls

Engineering Measures	Ensure adequate ventilation, especially in confined areas
Personal protective equipment	
Eye Protection	Goggles
Hand Protection	Protective gloves
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Colorless
odor	odorless
pH	No information available.
Vapor Pressure	1.33 hPa @ 23 °C
Vapor Density	4.6
Boiling Point/Range	183°C / 361.4°F@ 760 mmHg
Melting Point/Range	-88°C / -126.4°F
Flash Point	59°C / 138.2°F
Autoignition Temperature	412°C / 773.6°F
Explosion Limits	
Lower	0.8
Upper	5.8
Water Solubility	Insoluble
Specific Gravity	0.860
Molecular Formula	C10 H14
Molecular Weight	134.22

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions .	No information available.

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition, Incompatible products.

Incompatible Materials

Strong oxidizing agents, oxygen.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO_2).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information	No acute toxicity information is available for this product

Component Information

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.
Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Target Organs	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

Endocrine Disruptor Information

SECTION 11. TOXICOLOGICAL INFORMATION

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Butyl benzene	Group III Chemical		

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Component	log Pow
Butyl benzene	4.2

Mobility in soil

Results of PBT and vPvB assessment

Other adverse effects

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

SECTION 14. TRANSPORT INFORMATION

UN-No	2709
Hazard Class	3
Packing Group	III
Proper Shipping Name	BUTYLBENZENES

ADR

UN-No	2709
Hazard Class	3
Packing Group	III
Proper Shipping Name	BUTYLBENZENES

IATA

UN-No	2709
Hazard Class	3
Packing Group	III
Proper Shipping Name	BUTYLBENZENES

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Butyl benzene	203-209-7	-		X	X	-	X	X	X	X	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
CHINA - China Inventory of Existing Chemical Substances
AICS - Inventory of Chemical Substances
KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
No information available.

Revision Date 03-May-2012
Revision Summary

Reason for revision Not applicable
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

Creation Date 26-Oct-2009 **Revision Date** 02-Apr-2014 **Revision Number** 1

1. Identification

Product Name **n-Hexane**

Cat No. : **AC326920000; AC326920010; AC326920025; AC326921000; AC326922500**

Synonyms Hex

Recommended Use Laboratory chemicals

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 /
Europe call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 /
Europe: +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 /
Europe:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Liver, Heart, Blood.	
Aspiration Toxicity	Category 1

Label Elements

Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor

May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation
May cause drowsiness or dizziness
Suspected of damaging fertility
Causes damage to organs through prolonged or repeated exposure



Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention.
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Haz/Non-haz

Component	CAS-No	Weight %
Hexane	110-54-3	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Obtain medical attention. Aspiration into lungs can produce severe lung damage.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately. If vomiting occurs, lean victim forward to reduce the risk of aspiration.

Most important symptoms/effects Breathing difficulties. . Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media CO_2, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media Water may be ineffective, This material is lighter than water and insoluble in water. The fire could easily be spread by the use of water in an area where the water cannot be contained.

Flash Point -22°C / -7.6°F

Method - No information available

Autoignition Temperature 223°C / 433.4°F

Explosion Limits

Upper 7.5 vol %

Lower 1.1 vol %

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO_2).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
2	3	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

7. Handling and storage

Handling Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hexane	TWA: 50 ppm Skin	(Vacated) TWA: 50 ppm (Vacated) TWA: 180 mg/m^3 TWA: 500 ppm TWA: 1800 mg/m^3	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m^3

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Hexane	TWA: 50 ppm TWA: 176 mg/m^3 Skin	TWA: 50 ppm TWA: 176 mg/m^3	TWA: 50 ppm Skin

Legend
ACGIH *- American Conference of Governmental Hygienists*
OSHA *- Occupational Safety and Health Administration*
NIOSH IDLH: *The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health*

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Petroleum distillates
Odor Threshold	No information available.
pH	No information available.
Melting Point/Range	-95°C / -139°F
Boiling Point/Range	69°C / 156.2°F@ 760 mmHg
Flash Point	-22°C / -7.6°F
Evaporation Rate	No information available.
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	7.5 vol %
Lower	1.1 vol %
Vapor Pressure	160 mbar @ 20 °C
Vapor Density	2.97
Relative Density	0.659
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	223°C / 433.4°F
Decomposition temperature	No information available.
Viscosity	0.31 mPa s at 20 °C
Molecular Formula	C6 H14
Molecular Weight	86.18

10. Stability and reactivity

Reactive Hazard None known, based on information available.

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Heat, flames and sparks. Exposure to light. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials Strong oxidizing agents, Halogens

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur

Hazardous Reactions None under normal processing

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hexane	25 g/kg (Rat)	3000 mg/kg (Rabbit)	48000 ppm (Rat) 4 h

Toxicologically Synergistic Products No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Hexane	110-54-3	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects Mutagenic effects have occurred in experimental animals.

Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental Effects Developmental effects have occurred in experimental animals.

Teratogenicity Teratogenic effects have occurred in experimental animals..

STOT - single exposure Respiratory system, Central nervous system (CNS).

STOT - repeated exposure Liver, Heart, Blood.

Aspiration hazard No information available.

Symptoms / effects, both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals.. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Hexane	Not listed	2.1 - 2.98 mg/L LC50 96 h	Not listed	EC50: 3.87 mg/L/48h

Persistence and Degradability Persistence is unlikely, based on information available.

Bioaccumulation/ Accumulation No information available

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Hexane	4.11

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No	UN1208
Proper Shipping Name	Hexanes
Hazard Class	3
Packing Group	II

TDG

UN-No	UN1208
Proper Shipping Name	HEXANES
Hazard Class	3
Packing Group	II

IATA

UN-No	UN1208
Proper Shipping Name	Hexanes
Hazard Class	3
Packing Group	II

IMDG/IMO

UN-No	UN1208
Proper Shipping Name	Hexanes
Hazard Class	3
Packing Group	II

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Hexane	X	X	-	203-777-6	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Hexane	110-54-3	>95	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Hexane	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Hexane	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hexane	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

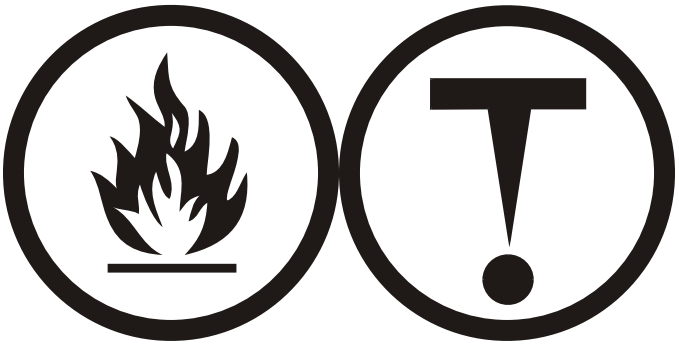
U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Serious risk, Grade 3

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class B2 Flammable liquid
D2A Very toxic materials



16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date	26-Oct-2009
Revision Date	02-Apr-2014
Print Date	02-Apr-2014
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Creation Date 04-Oct-2010 **Revision Date** 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Nickel, powder**

Cat No. : **AC193610000; AC193610250; AC193611000; AC193615000**

Synonyms Raney alloy

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Kidney, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
May cause an allergic skin reaction
Causes damage to organs through prolonged or repeated exposure
Suspected of causing cancer



Precautionary Statements

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Contaminated work clothing should not be allowed out of the workplace
Response
IF exposed or concerned: Get medical attention/advice
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Storage
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Harmful to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Nickel powder	7440-02-0	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature 400 °C / 752 °F
Explosion Limits
Upper No data available
Lower No data available

Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Combustible material.

Hazardous Combustion Products
Nickel oxides.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid dust formation.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and storage

Handling Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nickel powder	TWA: 1.5 mg/m³	(Vacated) TWA: 1 mg/m³ TWA: 1 mg/m³	IDLH: 10 mg/m³ TWA: 0.015 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Nickel powder	TWA: 1 mg/m³	TWA: 1 mg/m³	TWA: 1 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Brown
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	1455 °C / 2651 °F
Boiling Point/Range	2730 °C / 4946 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 1810 °C
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	400 °C / 752 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Ni
Molecular Weight	58.7

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Nickel oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nickel powder	9000 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization May cause sensitization by skin contact Nickel and nickel compounds may cause a form of dermatitis known as nickel itch. May cause an allergic skin reaction

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Nickel powder	7440-02-0	Group 2B	Reasonably Anticipated	Not listed	X	Not listed

IARC: (International Agency for Research on Cancer) *Group 2B - Possibly Carcinogenic to Humans*

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure Kidney Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Endocrine Disruptor Information No information available

Other Adverse Effects See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Nickel powder	0.18 mg/L EC50 = 72 h 0.174 - 0.311 mg/L EC50 96 h	10.4 mg/L LC50 96 h 1.3 mg/L LC50 96 h 100 mg/L LC50 96 h	Not listed	1 mg/L EC50 = 48 h 100 mg/L EC50 > 48 h

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
- **UN-No** UN3089
- **Proper Shipping Name** METAL POWDERS, FLAMMABLE, N.O.S.
- **Hazard Class** 4.1
- **Packing Group** II

TDG
- **UN-No** UN3089
- **Proper Shipping Name** METAL POWDERS, FLAMMABLE, N.O.S.
- **Hazard Class** 4.1
- **Packing Group** II

IATA

UN-No	3089
Proper Shipping Name	METAL POWDERS, FLAMMABLE, N.O.S.
Hazard Class	4.1
Packing Group	II

IMDG/IMO

UN-No	3089
Proper Shipping Name	METAL POWDERS, FLAMMABLE, N.O.S.
Hazard Class	4.1
Packing Group	II

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Nickel powder	X	X	-	231-111-4	-		X	-	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Nickel powder	7440-02-0	>95	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Nickel powder	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Nickel powder	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Nickel powder	100 lb	-

California Proposition 65 This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Nickel powder	7440-02-0	Carcinogen	-	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Nickel powder	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2A Very toxic materials



16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 04-Oct-2010
Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/28/2019 Version Number 3 Reviewed on 03/23/2019

*

1 Identification

· **Product identifier**

· **Trade name: n-Propylbenzene Standard (1X1 mL)**

· **Part number:** EPA-1045-1
· **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA

· **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
· **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

· **Classification of the substance or mixture**


GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.


GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.


GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.
STOT SE 1 H370 Causes damage to organs.

· **Label elements**
· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**


GHS02 GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
methanol
· **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Suspected of causing cancer.

(Contd. on page 2)

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(Contd. of page 1)

Causes damage to organs.

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *1
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
67-56-1	methanol	99.368%
103-65-1	propylbenzene	0.632%

(Contd. on page 3)

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(Contd. of page 2)

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
67-56-1	methanol	530 ppm
103-65-1	propylbenzene	3.7 ppm

(Contd. on page 4)

(Contd. of page 3)

· **PAC-2:**		
67-56-1	methanol	2,100 ppm
103-65-1	propylbenzene	41 ppm

· **PAC-3:**		
67-56-1	methanol	7200* ppm
103-65-1	propylbenzene	240 ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
67-56-1 methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
TLV	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI

· **Ingredients with biological limit values:**	
67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

(Contd. of page 4)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **Breathing equipment:**
When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.
· **Protection of hands:**
Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.
· **Material of gloves**
For normal use: nitrile rubber, 11-13 mil thickness
For direct contact with the chemical: butyl rubber, 12-15 mil thickness
· **Penetration time of glove material**
For normal use: nitrile rubber: 1 hour
For direct contact with the chemical: butyl rubber: >4 hours
· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	Colorless
· **Odor:**	Alcohol-like
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	64.7 °C (148.5 °F)
· **Flash point:**	9 °C (48.2 °F)
· **Flammability (solid, gaseous):**	Not applicable.

(Contd. on page 6)

(Contd. of page 5)

· **Ignition temperature:**	455 °C (851 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	5.5 Vol %
Upper:	44 Vol %
· **Vapor pressure at 20 °C (68 °F):**	100 hPa (75 mm Hg)
· **Density at 20 °C (68 °F):**	0.80063 g/cm³ (6.68126 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	100.0 %
VOC content:	100.00 % 800.6 g/l / 6.68 lb/gal
Solids content:	0.0 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
ATE (Acute Toxicity Estimate)		
Inhalative	LC50/4 h	3.02 mg/L

(Contd. on page 7)

(Contd. of page 6)

67-56-1 methanol		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
103-65-1 propylbenzene		
Oral	LD50	6,040 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)
None of the ingredients is listed.

· NTP (National Toxicology Program)
None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Trade name: n-Propylbenzene Standard (1X1 mL)

(Contd. of page 7)

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

*
14 Transport information

· **Not Regulated, De minimus Quantities**	-
· **UN-Number**	
· **DOT, IMDG, IATA**	UN1230
· **UN proper shipping name**	
· **DOT**	Methanol solution
· **IMDG, IATA**	METHANOL solution
· **Transport hazard class(es)**	
· **DOT**	
	
· **Class**	3 Flammable liquids
· **Label**	3, 6.1
· **IMDG**	
	
· **Class**	3 Flammable liquids
· **Label**	3/6.1
· **IATA**	
	
· **Class**	3 Flammable liquids
· **Label**	3 (6.1)
· **Packing group**	
· **DOT, IMDG, IATA**	II
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Flammable liquids
· **Danger code (Kemler):**	336
· **EMS Number:**	F-E,S-D
· **Stowage Category**	B
· **Stowage Code**	SW2 Clear of living quarters.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.

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Safety Data Sheet
acc. to OSHA HCS

(Contd. of page 8)

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations**	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L

· **IMDG**

· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1230 METHANOL SOLUTION, 3 (6.1), II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

67-56-1	methanol

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

67-56-1	methanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

(Contd. of page 9)

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· **Department issuing SDS:** Document Control / Regulatory
· **Contact:** regulatory@ultrasci.com
· **Date of preparation / last revision** 03/28/2019 / 2
· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Carc. 2: Carcinogenicity – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
· *** Data compared to the previous version altered.**

SAFETY DATA SHEET

Version 4.7
Revision Date 05/27/2015
Print Date 04/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : *o*-Cresol

Product Number : C85700
Brand : Sigma-Aldrich
Index-No. : 604-004-00-9

CAS-No. : 95-48-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 + H311 Toxic if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P260 Do not breathe dust or mist.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	2-Methylphenol
Formula	:	C_7H_8O
Molecular weight	:	108.14 g/mol
CAS-No.	:	95-48-7
EC-No.	:	202-423-8
Index-No.	:	604-004-00-9

Hazardous components

Component	Classification	Concentration
o-Cresol		
	Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 2; H301 + H311, H314, H318, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Air and light sensitive. Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
o-Cresol	95-48-7	TWA	5.000000 ppm 22.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	Skin contact does contribute to exposure.		

		TWA	5.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Eye, skin, & Upper Respiratory Tract irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC 2010 Revision or addition to the notice of intended changes See Notice of Intended Changes (NIC) Danger of cutaneous absorption		
		TWA	2.300000 ppm 10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	20.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen Danger of cutaneous absorption		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 30 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	4.5 at 25.00000 g/l
e)	Melting point/freezing point	Melting point/range: 29 - 31 °C (84 - 88 °F) - lit.
f)	Initial boiling point and boiling range	191 °C (376 °F) - lit.
g)	Flash point	81.0 °C (177.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 58 %(V) Lower explosion limit: 1.3 %(V)
k)	Vapour pressure	3.1 hPa (2.3 mmHg) at 60.0 °C (140.0 °F) 1.3 hPa (1.0 mmHg) at 38.2 °C (100.8 °F) 0.4 hPa (0.3 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.05 g/cm3 at 20.00 °C (68.00 °F)
n)	Water solubility	25 g/l at 20 °C (68 °F)
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	599.0 °C (1,110.2 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 121.0 mg/kg
Remarks: Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea. Gastrointestinal:Ulceration or bleeding from stomach.

LC50 Inhalation - Rat - 1 h - > 1,220 mg/m3
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Behavioral:Somnolence (general depressed activity).

LD50 Dermal - Rabbit - 890.0 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Severe skin irritation - 24 h
(Draize Test)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Severe eye irritation
(Draize Test)

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GO6300000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Central nervous system depression, Diarrhoea, Gastrointestinal disturbance

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - 10.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 15.8 mg/l - 48 h
Toxicity to algae	EC50 - SELENASTRUM - 100.00 mg/l - 72 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3455 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, solid
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3455 Class: 6.1 (8) Packing group: II EMS-No: F-A, S-B
Proper shipping name: CRESOLS, SOLID

IATA
UN number: 3455 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, solid

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
o-Cresol	95-48-7	2007-07-01

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
o-Cresol	95-48-7	2007-07-01

Massachusetts Right To Know Components

	CAS-No.	Revision Date
o-Cresol	95-48-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
o-Cresol	95-48-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
o-Cresol	95-48-7	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
H301	Toxic if swallowed.
H301 + H311	Toxic if swallowed or in contact with skin
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	2
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.7 Revision Date: 05/27/2015 Print Date: 04/01/2016

SAFETY DATA SHEET

Version 5.5
Revision Date 06/02/2016
Print Date 06/21/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : *o*-Xylene

Product Number : 95660
Brand : Sigma-Aldrich
Index-No. : 601-022-00-9

CAS-No. : 95-47-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Aspiration hazard (Category 1), H304
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312 + H332	Harmful in contact with skin or if inhaled
H315	Causes skin irritation.
H319	Causes serious eye irritation.

H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,2-Dimethylbenzene
Formula	:	C_8H_{10}
Molecular weight	:	106.17 g/mol
CAS-No.	:	95-47-6
EC-No.	:	202-422-2
Index-No.	:	601-022-00-9

Hazardous components

Component	Classification	Concentration
o-Xylene		
	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Asp. Tox. 1; Aquatic Acute 3; Aquatic Chronic 3; H226, H304, H312 + H332, H315, H319, H335, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
o-Xylene	95-47-6	TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	100.000000 ppm 435.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	100.000000 ppm 435.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	150.000000 ppm 655.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	100.000000 ppm 435.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment		

		Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	100 ppm 435 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
o-Xylene	95-47-6	Methylhippuric acids	1,500.0000 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			
		Methylhippuric acids	1.5g/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber

Minimum layer thickness: 0.4 mm
Break through time: 30 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -26 - -23 °C (-15 - -9 °F) - lit.
f)	Initial boiling point and boiling range	143 - 145 °C (289 - 293 °F) - lit.
g)	Flash point	31.0 °C (87.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 6.7 %(V) Lower explosion limit: 0.9 %(V)
k)	Vapour pressure	21.3 hPa (16.0 mmHg) at 37.7 °C (99.9 °F)
l)	Vapour density	No data available
m)	Relative density	0.879 g/mL at 20 °C (68 °F)
n)	Water solubility	0.1705 g/l at 25 °C (77 °F) - partly soluble
o)	Partition coefficient: n-octanol/water	log Pow: 3.12 at 20 °C (68 °F)
p)	Auto-ignition temperature	464.0 °C (867.2 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available

s) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information

Surface tension 29.8 mN/m at 25.0 °C (77.0 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

LC50 Inhalation - Rat - male - 6 h - 18,800 mg/m3

Dermal: No data available

LD50 Intraperitoneal - Mouse - 1,364 mg/kg

Skin corrosion/irritation
Skin - Rabbit
Result: Irritating to skin. - 24 h

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
- Mouse
Result: Does not cause skin sensitisation.
(OECD Test Guideline 429)

Germ cell mutagenicity
Ames test
Salmonella typhimurium
Result: negative

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (o-Xylene)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
May be fatal if swallowed and enters airways.

Additional Information
RTECS: ZE2450000

narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression, Dermatitis, Gastrointestinal disturbance, Liver injury may occur., Kidney injury may occur., Blood disorders

Nerves. -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 16.10 mg/l - 96 h

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 69.67 % - Not readily biodegradable. (OECD Test Guideline 301F) Remarks: The 10 day time window criterion is not fulfilled.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1307 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: XYLENES

IATA
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
o-Xylene	95-47-6	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
o-Xylene	95-47-6	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
o-Xylene	95-47-6	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
o-Xylene	95-47-6	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.

H312 + H332	Harmful in contact with skin or if inhaled
H315	Causes skin irritation.
H319	Causes serious eye irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 06/02/2016 Print Date: 06/21/2016

SAFETY DATA SHEET

Version 4.10
Revision Date 11/12/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : *p*-Cresol

Product Number : W233706
Brand : Aldrich
Index-No. : 604-004-00-9

CAS-No. : 106-44-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 + H311 Toxic if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P260 Do not breathe dust or mist.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P322	Specific measures (see supplemental first aid instructions on this label).
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	4-Methylphenol
Formula	:	C_7H_8O
Molecular weight	:	108.14 g/mol
CAS-No.	:	106-44-5
EC-No.	:	203-398-6
Index-No.	:	604-004-00-9

Hazardous components

Component	Classification	Concentration
p-Cresol		
	Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 2; H301 + H311, H314, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

hygroscopic Air and light sensitive. Handle and store under inert gas.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
p-Cresol	106-44-5	TWA	2.3 ppm 10 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5 ppm 22 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	Skin designation The value in mg/m3 is approximate.		

		TWA	20 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen Danger of cutaneous absorption		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 30 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing	Melting point/range: 31 - 37 °C (88 - 99 °F)

	point	Melting point/range: 32 - 34 °C (90 - 93 °F) - lit.
f)	Initial boiling point and boiling range	202 °C (396 °F) - lit.
g)	Flash point	85.0 °C (185.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Lower explosion limit: 1.1 %(V)
k)	Vapour pressure	1.3 hPa (1.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.034 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 1.94
p)	Auto-ignition temperature	559.0 °C (1,038.2 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents, Bases

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 207.0 mg/kg
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes. Behavioral:Convulsions or effect on seizure threshold. Gastrointestinal:Ulceration or bleeding from stomach.

LC50 Inhalation - Rat - 1 h - > 710 mg/m3

LD50 Dermal - Rabbit - 301.0 mg/kg
Remarks: Behavioral:Tremor. Gastrointestinal:Changes in structure or function of salivary glands. Kidney, Ureter, Bladder:Other changes.

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Severe skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Severe eye irritation

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GO6475000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, laryngitis, Dizziness, Cardiovascular effects., Muscle cramps/spasms., Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - other fish - 16.00 - 24.00 mg/l - 24 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 7.9 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 1.4 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Does not bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3455 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, solid
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3455 Class: 6.1 (8) Packing group: II EMS-No: F-A, S-B
Proper shipping name: CRESOLS, SOLID

IATA
UN number: 3455 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, solid

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
p-Cresol	106-44-5	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
p-Cresol	106-44-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
p-Cresol	106-44-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
p-Cresol	106-44-5	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
H301	Toxic if swallowed.
H301 + H311	Toxic if swallowed or in contact with skin
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	2
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.10 Revision Date: 11/12/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 4.2
Revision Date 07/09/2014
Print Date 04/20/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 1,4-Diethylbenzene

Product Number : D91004
Brand : Aldrich

CAS-No. : 105-05-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{10}H_{14}$
Molecular Weight	:	134.22 g/mol
CAS-No.	:	105-05-5
EC-No.	:	203-265-2

Hazardous components

Component	Classification	Concentration
1,4-Diethylbenzene		
	Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H226, H315, H319, H335	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 30 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: colourless
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	Melting point/range: -43 °C (-45 °F) - lit.
f)	Initial boiling point and boiling range	184 °C (363 °F) - lit.
g)	Flash point	55 °C (131 °F) - closed cup
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or	no data available

	explosive limits	
k)	Vapour pressure	no data available
l)	Vapour density	4.63 - (Air = 1.0)
m)	Relative density	0.862 g/cm3 at 25 °C (77 °F)
n)	Water solubility	no data available
o)	Partition coefficient: n-octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information

Relative vapour density 4.63 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
no data available

Dermal: no data available

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity
no data available

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2049 Class: 3 Packing group: III
Proper shipping name: Diethylbenzene
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN number: 2049 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: DIETHYLBENZENE
Marine pollutant: No

IATA
UN number: 2049 Class: 3 Packing group: III
Proper shipping name: Diethylbenzene

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,4-Diethylbenzene	105-05-5	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,4-Diethylbenzene	105-05-5	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,4-Diethylbenzene	105-05-5	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	2
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	2

Reactivity Hazard: 0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.2 Revision Date: 07/09/2014 Print Date: 04/20/2016

SAFETY DATA SHEET

Version 4.9
Revision Date 12/29/2015
Print Date 02/22/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Pentachlorophenol

Product Number : P2604
Brand : Aldrich
Index-No. : 604-002-00-8

CAS-No. : 87-86-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 2), H330
Acute toxicity, Dermal (Category 3), H311
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 + H311 Toxic if swallowed or in contact with skin
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.

H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C_6HCl_5O
Molecular weight	:	266.34 g/mol
CAS-No.	:	87-86-5
EC-No.	:	201-778-6
Index-No.	:	604-002-00-8

Hazardous components

Component	Classification	Concentration
Pentachlorophenol		
	Acute Tox. 3; Acute Tox. 2; Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 2; H301 + H311, H315, H319, H330, H335, H351, H400, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Pentachlorophenol	87-86-5	TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Cardiac impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Cardiac impairment 2015 Adoption Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		STEL	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Cardiac impairment 2015 Adoption Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Pentachlorophenol	87-86-5	pentachlorophenol	2.0000 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	Prior to last shift of workweek			
		Free PCP	5.0000 mg/l	In plasma	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As soon as possible after exposure ceases)			
		pentachlorophenol		Urine	ACGIH - Biological Exposure Indices (BEI)

		Prior to last shift of workweek

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 120 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: light red
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 165 - 180 °C (329 - 356 °F)
f)	Initial boiling point and boiling range	310 °C (590 °F)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available

	flammability or explosive limits	
k)	Vapour pressure	53.3 hPa (40.0 mmHg) at 211.2 °C (412.2 °F)
l)	Vapour density	No data available
m)	Relative density	1.978 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5.12
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 27 mg/kg
Remarks: Vascular:BP elevation not charactertized in autonomic section. Endocrine:Hyperglycemia. Nutritional and Gross Metabolic:Changes in:Body temperature increase.

LC50 Inhalation - Rat - 355 mg/m3
Remarks: Behavioral:Excitement. Behavioral:Muscle contraction or spasticity. Lungs, Thorax, or Respiration:Dyspnea.

LD50 Dermal - Rat - 96.0 mg/kg
Remarks: Behavioral:Excitement. Behavioral:Muscle contraction or spasticity. Lungs, Thorax, or Respiration:Dyspnea.

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Open irritation test - 24.00 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24.00 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

The evidence for carcinogenicity of pentachlorophenol (PCP) is based on assays that utilized less than pure PCP. Contaminants of PCP include: tri- or tetra- chlorophenol, hexachlorobenzene, polychlorinated dibenzo-p-dioxins, or polychlorinated dibenzofurans. Indications are that positive evidence for carcinogenicity is from the contaminant(s) and not the PCP. This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Pentachlorophenol)
NTP:	Reasonably anticipated to be a human carcinogen (Pentachlorophenol)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

Convulsions

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinodon variegatus (sheepshead minnow) - 0.16 - 0.5 mg/l - 96.0 h
	LC50 - Carassius auratus (goldfish) - 0.16 - 0.38 mg/l - 96.0 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.075 mg/l - 96.0 h
	NOEC - other fish - 0.01 mg/l - 24.0 h
	LOEC - other fish - 0.1 mg/l - 24.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.30 - 1.30 mg/l - 48 h
Toxicity to algae	EC50 - No information available. - 0.36 mg/l - 10 d
	EC50 - Chlorella vulgaris (Fresh water algae) - 10.30 mg/l - 96 h
	Growth inhibition EC50 - Scenedesmus quadricauda (Green algae) - 0.08 mg/l - 96 h

12.2 Persistence and degradability

Biodegradability Result: 99 % - Biodegradable

12.3 Bioaccumulative potential

Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 144 h
- 0.0912 mg/l

Bioconcentration factor (BCF): 482

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3155 Class: 6.1 Packing group: II
Proper shipping name: Pentachlorophenol
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 3155 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: PENTACHLOROPHENOL
Marine pollutant: yes

IATA

UN number: 3155 Class: 6.1 Packing group: II
Proper shipping name: Pentachlorophenol

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Pentachlorophenol	87-86-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Pentachlorophenol	87-86-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Pentachlorophenol	87-86-5	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Pentachlorophenol	87-86-5	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H301 + H311	Toxic if swallowed or in contact with skin
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	1

NFPA Rating

Health hazard:	4
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.9 Revision Date: 12/29/2015 Print Date: 02/22/2016

SAFETY DATA SHEET

Version 6.4
Revision Date 04/18/2021
Print Date 06/19/2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Perfluorooctanoic acid

Product Number : 171468
Brand : Aldrich
CAS-No. : 335-67-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 1B), H360
Effects on or via lactation, H362
Specific target organ toxicity - repeated exposure (Category 1), Liver, H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Signal word	Danger
Hazard statement(s)	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs (Liver) through prolonged or repeated exposure.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P263	Avoid contact during pregnancy/ while nursing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	Pentadecafluorooctanoic acid Perfluorocaprylic acid Perfluorooctanoic acid
Formula	:	$C_8HF_{15}O_2$
Molecular weight	:	414.07 g/mol
CAS-No.	:	335-67-1
EC-No.	:	206-397-9

Component	Classification	Concentration
pentadecafluorooctanoic acid		
	Acute Tox. 4; Skin Corr.	<= 100 %

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	1B; Eye Dam. 1; Carc. 2; Repr. 1B; Lact. ; STOT RE 1; H302, H314, H318, H351, H360, H362, H372	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Hydrogen fluoride
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

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8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: > 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: > 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Acid-resistant protective clothing

Respiratory protection
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: flakes Color: colorless

The life science business of Merck KGaA, Darmstadt, Germany
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b)	Odor	stinging
c)	Odor Threshold	No data available
d)	pH	2.6 at 1 g/l at 20 °C (68 °F)
e)	Melting point/freezing point	Melting point/range: 55 - 56 °C (131 - 133 °F) - lit.
f)	Initial boiling point and boiling range	189 °C 372 °F at 981 hPa - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	0.69 hPa at 25 °C (77 °F)
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	3.4 g/l at 20 °C (68 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 6.30 - Potential bioaccumulation, (Lit.)
p)	Autoignition temperature	No data available
q)	Decomposition temperature	> 300 °C (> 572 °F) -
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:
Strong oxidizing agents
Strong acids
Bases

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operates as MilliporeSigma in the US and Canada

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimate Oral - 500.1 mg/kg
(Expert judgment)

Acute toxicity estimate Inhalation - 4 h - 11.1 mg/l
(Expert judgment)

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitization

Germ cell mutagenicity
No data available

No data available
No data available

Carcinogenicity
Suspected of causing cancer.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (pentadecafluorooctanoic acid)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
May damage the unborn child.
Studies indicating a hazard to babies during the lactation period

Specific target organ toxicity - single exposure

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Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure. - Liver

Aspiration hazard

11.2 Additional Information

RTECS: RH0781000

Cough, Shortness of breath, Headache, Nausea, Vomiting
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

gastric pain
Nausea
Vomiting
Drowsiness
somnolence

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

No data available

Toxicity to daphnia and other aquatic invertebrates	Remarks: No data available (pentadecafluorooctanoic acid)
Toxicity to algae	Remarks: No data available (pentadecafluorooctanoic acid)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Discharge into the environment must be avoided.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)
UN number: 3261 Class: 8 Packing group: III
Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (pentadecafluorooctanoic acid)
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG
UN number: 3261 Class: 8 Packing group: III EMS-No: F-A, S-B
Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (pentadecafluorooctanoic acid)

IATA
UN number: 3261 Class: 8 Packing group: III
Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (pentadecafluorooctanoic acid)

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
pentadecafluorooctanoic acid	335-67-1	2018-02-01

New Jersey Right To Know Components

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SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.4 Revision Date: 04/18/2021 Print Date: 06/19/2021

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET

Version 4.2
Revision Date 09/08/2015
Print Date 10/19/2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Nonafluorobutane-1-sulfonic acid

Product Number : 562629
Brand : Aldrich

CAS-No. : 375-73-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statement(s)
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated

	clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
Reacts violently with water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_4HF_9O_3S$
Molecular weight	:	300.10 g/mol
CAS-No.	:	375-73-5
EC-No.	:	206-793-1

Hazardous components

Component	Classification	Concentration
1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulphonic acid		
	Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H302, H314	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Sulphur oxides, Hydrogen fluoride

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Never allow product to get in contact with water during storage.

Recommended storage temperature 2 - 8 °C

Handle and store under inert gas.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	112 - 114 °C (234 - 237 °F) at 19 hPa (14 mmHg) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.811 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Do not allow water to enter container because of violent reaction.
Exposure to moisture

10.5 Incompatible materials
Strong oxidizing agentsStrong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 430 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity). Skin and Appendages: Other: Hair. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: EK5930000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3265 Class: 8 Packing group: II
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulphonic acid)

Poison Inhalation Hazard: No

IMDG
UN number: 3265 Class: 8 Packing group: II EMS-No: F-A, S-B
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulphonic acid)

IATA
UN number: 3265 Class: 8 Packing group: II
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulphonic acid)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

CAS-No. Revision Date

1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulphonic acid	375-73-5

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulphonic acid	375-73-5	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
Skin Corr.	Skin corrosion

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.2 Revision Date: 09/08/2015 Print Date: 10/19/2018

SAFETY DATA SHEET

Version 4.4
Revision Date 06/18/2015
Print Date 05/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Perfluorodecanoic acid

Product Number : 177741
Brand : Aldrich

CAS-No. : 335-76-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H301 Toxic if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.

P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : Nonadecafluorodecanoic acid
Nonadecafluorocapric acid
Perfluorodecanoic acid
Perfluorocapric acid

Formula : $C_{10}HF_{19}O_2$
Molecular weight : 514.08 g/mol
CAS-No. : 335-76-2
EC-No. : 206-400-3

Hazardous components

Component	Classification	Concentration
Nonadecafluorodecanoic acid		
	Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H301, H315, H319, H335	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen fluoride

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 77 - 81 °C (171 - 178 °F) - lit.
f)	Initial boiling point and boiling range	218 °C (424 °F) at 987 hPa (740 mmHg) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available

n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Bases, Oxidizing agents, Reducing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 57 mg/kg
Remarks: Behavioral:Food intake (animal).

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity

Rat
DNA damage

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Reproductive toxicity - Rat - Oral
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Reproductive toxicity - Rat - Intraperitoneal
Paternal Effects: Testes, epididymis, sperm duct.

Reproductive toxicity - Mouse - Oral
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).
Effects on Embryo or Fetus: Fetal death.

No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: HD9900000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (Nonadecafluorodecanoic acid)
Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Nonadecafluorodecanoic acid)

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (Nonadecafluorodecanoic acid)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Nonadecafluorodecanoic acid	335-76-2	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Nonadecafluorodecanoic acid	335-76-2	

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin irritation

HMIS Rating
Health hazard: 2
Chronic Health Hazard:
Flammability: 0

Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.4 Revision Date: 06/18/2015 Print Date: 05/01/2016

SAFETY DATA SHEET

Version 6.1
Revision Date 01/15/2020
Print Date 06/19/2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Perfluoroheptanoic acid

Product Number : 342041
Brand : Aldrich
CAS-No. : 375-85-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H302 Harmful if swallowed.

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H314	Causes severe skin burns and eye damage.

Precautionary statement(s)

P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see supplemental first aid instructions on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	$C_7HF_{13}O_2$
Molecular weight	:	364.06 g/mol
CAS-No.	:	375-85-9
EC-No.	:	206-798-9

Component	Classification	Concentration
Perfluoroheptanoic acid		
	Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H302, H314, H318	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

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If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen fluoride
Carbon oxides, Hydrogen fluoride

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: beige
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/freezing point: 30 °C (86 °F)
f)	Initial boiling point and boiling range	175 °C 347 °F at 989 hPa
g)	Flash point	> 113.00 °C (> 235.40 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.792 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

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10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen fluoride
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen fluoride
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
No data available
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

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Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
UN number: 3261 Class: 8 Packing group: II
Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Perfluoroheptanoic acid)
Poison Inhalation Hazard: No

IMDG
UN number: 3261 Class: 8 Packing group: II EMS-No: F-A, S-B

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Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Perfluoroheptanoic acid)

IATA
UN number: 3261 Class: 8 Packing group: II
Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Perfluoroheptanoic acid)

SECTION 15: Regulatory information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Perfluoroheptanoic acid	CAS-No. 375-85-9	Revision Date

New Jersey Right To Know Components

Perfluoroheptanoic acid	CAS-No. 375-85-9	Revision Date

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the

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information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.1 Revision Date: 01/15/2020 Print Date: 06/19/2021

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SAFETY DATA SHEET

Version 6.7
Revision Date 09/28/2020
Print Date 06/19/2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Perfluorohexanoic acid

Product Number : 43809
Brand : Sigma-Aldrich
CAS-No. : 307-24-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H314 Causes severe skin burns and eye damage.

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Precautionary statement(s)	
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	C6HF11O2
Molecular weight	:	314.06 g/mol
CAS-No.	:	307-24-4
EC-No.	:	206-196-6

Component	Classification	Concentration
Undecafluorohexanoic acid		
	Skin Corr. 1B; Eye Dam. 1; H314, H318	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aider needs to protect himself. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

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If swallowed
After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen fluoride
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Tightly closed.

Recommended storage temperature 2 - 8 °C

Store under argon.
Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
required

Body Protection
protective clothing

Respiratory protection
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odor	No data available
c)	Odor Threshold	No data available

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d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 12 - 14 °C (54 - 57 °F)
f)	Initial boiling point and boiling range	157 °C 315 °F at 989.2 hPa
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	1.757 g/cm3 at 20 °C (68 °F)
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen fluoride

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Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
No data available
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and loc No mixing with other waste. Handle uncleaned containers like the product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)
UN number: 3265 Class: 8 Packing group: II
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Undecafluorohexanoic acid)
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG
UN number: 3265 Class: 8 Packing group: II EMS-No: F-A, S-B
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Undecafluorohexanoic acid)

IATA
UN number: 3265 Class: 8 Packing group: II
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Undecafluorohexanoic acid)

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

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SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

SECTION 16: Other information

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.7 Revision Date: 09/28/2020 Print Date: 06/19/2021

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

AccuStandard, Inc.
125 Market St., New Haven, CT 06513 USA
Tel: 203-786-5290 Fax: 203-786-5287

SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 - Product Identifiers

Catalog Name: S-78941

Description: Perfluorohexane sulfonic acid in Methanol

1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

1.3 - Supplier Details

Company: AccuStandard, Inc.
125 Market St.
New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

1.4 - Emergency Telephone Number

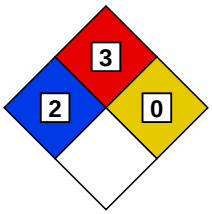
Emergency Phone #: AccuStandard, Inc.
1-203-502-7070 (USA)
+001-203-502-7070 (International)

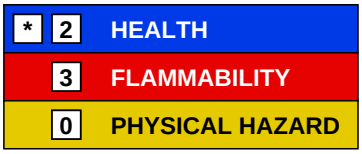
24 hours / 7 days a week

SECTION 2 - HAZARDS IDENTIFICATION

2.1 - GHS Label Elements







Signal Word: Danger

Hazard Codes:

H225 - Highly Flammable (Flammable liquids, category 2)

H301 - Toxic if swallowed. (Acute toxicity, oral, category 3)

H311 - Toxic if absorbed through skin. (Acute toxicity, dermal, category 3)

H315 - Irritating to skin. (Skin corrosion/irritation, category 2)

H320 - Irritating to eyes. (Eye damage/irritation, category 2B)

H332 - Harmful if inhaled. (Acute toxicity, inhalation, category 4)

H336 - Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

H360 - California Proposition 65 Warning: This product contains a component (or components) that may cause birth defects or other reproductive harm in a quantity greater than or equal to 0.1%.

H370 - Causes damage to organs. (Specific target organ toxicity, single exposure, category 1)

Precautionary Codes:

SECTION 2 - HAZARDS IDENTIFICATION *- continued*

2.1 - GHS Label Elements *- continued*

P202 - This product should only by used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P280 - Protective gloves must be worn to prevent skin contact.

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P331 - Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P360 - Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

2.2 - Other Hazards

2.2.1 - Symptom of Exposure Health/Environment

Highly Flammable (Flammable liquids, category 2)

Causes damage to organs. (Specific target organ toxicity, single exposure, category 1)

After ingestion or inhalation, initial symptoms may be only that of mild intoxication, but may become severe after 12 or 18 hours.

POISON: May be fatal or cause blindness if swallowed.

Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

2.2.2 - Potential Health Effects

Irritating to eyes. (Eye damage/irritation, category 2B)

Irritating to skin. (Skin corrosion/irritation, category 2)

Toxic if absorbed through skin. (Acute toxicity, dermal, category 3)

Irritating to mucous membrane and upper respiratory system.

Harmful if inhaled. (Acute toxicity, inhalation, category 4)

Toxic if swallowed. (Acute toxicity, oral, category 3)

2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

2.2.4 - Carcinogenicity

California Proposition 65 Warning: This product contains a component (or components) that may cause birth defects or other reproductive harm in a quantity greater than or equal to 0.1%.

SECTION 3 - COMPOSITION / ANALYTES DATA

Description: Perfluorohexane sulfonic acid in Methanol

SECTION 3 - COMPOSITION / ANALYTES DATA *- continued*

Analyte	CAS #	% Concentration	ACGIH -TLV (mg/m^3)			OSHA -PEL (mg/m^3)		
			TWA	STEL	Skin	TWA	STEL	Skin
Perfluorohexane sulfonic acid	355-46-4	0.010						
Methanol	67-56-1	99.990				260		

SECTION 4 - FIRST AID MEASURES

4.1 - First Aid Procedures - General

Get medical assistance for all cases of overexposure.

4.2 - Eye Contact

Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. (P338)

4.3 - Skin Contact

Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. (P360)

4.4 - Inhalation

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

4.5 - Ingestion

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. (P331)

SECTION 5 - FIRE FIGHTING MEASURES

5.1 - Flammable Properties

Dangerous fire and explosive hazard.

Containers can build up pressure if exposed to heat.

Vapors can travel to a source of ignition and flash back.

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

5.2 - Extinguishing Media

Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

5.3 - Protection of Firefighters

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 - Spill Response

Wear suitable protective equipment listed under Exposure Controls / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Dispose as hazardous waste. Comply with Federal, State and local regulations.

SECTION 7 - HANDLING AND STORAGE

Store in a tightly closed container. (P404)

Keep refrigerated.

Avoid breathing vapors or mists.

Use with adequate ventilation.

Do not get in eyes, on skin or clothing. (P262)

Avoid prolonged or repeated exposure.

This product should only by used by persons trained in the safe handling of hazardous chemicals. (P202)

SECTION 8 - EXPOSURE CONTROLS

8.1 - Engineering Controls/PPE

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

8.2 - General Hygene Considerations

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Protective gloves must be worn to prevent skin contact. (P280)

(Chloroprene, natural rubber, nitrile, or equivalent)

Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

All recommendations are advisory only and must be evaluated by an industrial hygienist and/or safety officer familiar with the specific situation of anticipated use, such as concentration and amount of the substance in the workplace. Any recommendation should not be construed as offering an approval for any specific use of the product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Odor: N/A

Odor Threshold: N/A

pH: N/A

Melting Point: -93.9 °C

Boiling Point: 65 °C

Flash Point: 52 °F (11 °C) (tcc)

Evaporation Rate (Butyl Acetate=1): 5.9

Flammability Class: N/A

Lower Flammability Level: 6.7

Upper Flammability Level: 36.5

Vapor Pressure: 97 mmHg (20 °C)

Vapor Density (Air = 1): 1.1 g/L

Specific Gravity: 0.791 g/cm3

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES *- continued*

Solubility in Water: Very soluble

Partition Coefficient: log Pow: -0.77

Autoignition Temperature: 385 °C

Decomposition Temperature: N/A

Viscosity: N/A

VOC Content: N/A

Percent Volatile: 99.9+

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Acids
Oxidizers

Hazardous Decomposition: Oxides of carbon; Formaldehyde

Hazardous Polymerization: Will not occur

Condition to Avoid: Heat; Contact with ignition sources

SECTION 11 - TOXICOLOGICAL INFORMATION

Human Health Toxicity

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): Human - 143 mg/kg; Rat - 1500 mg/kg

LD50 (Dermal) : Rabbit - >2000 mg/kg

LC50 (Inhalation): Rat - >20 mg/L

WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.

No other information related to the toxicological properties of this product is available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Toxicity

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): >1000 mg/L 96H

EC50 (Aquatic Invertebrate): >1000 mg/L 48H

BCF: 1.0

Hydrolyzes readily on contact with water. Readily biodegradable.

No other information related to the ecological properties of this product is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

Transportation Information (DOT/IATA)

SECTION 14 - TRANSPORT INFORMATION *- continued*

UN Number: UN1230

Class: 3

Packing Group: II

Proper Shipping Name: Methanol

Poison by Inhalation: No

Marine Pollutant: No

SECTION 15 - REGULATORY INFORMATION

WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.

This product is subject to SARA section 313 reporting requirements.

All components are listed on the TSCA Inventory.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

HMIS/NFPA HAZARD INDEX

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Severe

* - Additional Hazard

GHS HAZARD INDEX

Category 1 - Most Severe
Category 5 - Least Severe

**** End of Document ****

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.
Revision date 11-Dec-2015
Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name	Perfluorononanoic acid
Product Code	SC-250678

Recommended use of the chemical and restrictions on use

For research use only. Not intended for diagnostic or therapeutic use.

Details of the supplier of the safety data sheet

Santa Cruz Biotechnology, Inc.
10410 Finnell Street
Dallas, TX 75220
831.457.3800
800.457.3801
scbt@scbt.com

Emergency telephone number

Chemtrec
1.800.424.9300 (Within USA)
+1.703.527.3887 (Outside USA)

2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification

Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1

Label elements

Signal word	Danger
Hazard statements	Causes severe skin burns and eye damage
Symbols/Pictograms	
Precautionary Statements - Prevention	Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection
Precautionary Statements - Response	Immediately call a POISON CENTER or doctor/physician IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
Precautionary Statements - Storage	Store locked up
Precautionary Statements - Disposal	Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC)	Not applicable

Other Information

Unknown acute toxicity	100% of the mixture consists of ingredient(s) of unknown toxicity.

NFPA			HMIS		
	Health hazards	-		Health hazards	3
	Flammability	-		Flammability	1
	Stability	-		Physical hazards	1
	Physical and chemical properties	-		Personal protection	-

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No	375-95-1
Molecular Weight	464.08
Formula	$C_9HF_{17}O_2$

Chemical Name	CAS No	Weight %	Oral LD50	Dermal LD50	Inhalation LC50
Perfluorononanoic acid	375-95-1	>98	-	-	-

4. FIRST AID MEASURES

First Aid Measures

General advice	Consult a physician if necessary. Remove to fresh air.
Eye contact	Wash with plenty of water.
Skin Contact	Wash skin with soap and water.
Inhalation	Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water.

Most important symptoms and effects, both acute and delayed

Symptoms	No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	None.

Specific hazards arising from the chemical

Specific hazards arising from the chemical	Thermal decomposition can lead to release of toxic/corrosive gases and vapors.
Hazardous combustion products	Hydrogen fluoride. Carbon oxides. Phosgene.

Explosion data

Sensitivity to Mechanical Impact	No information available.
Sensitivity to Static Discharge	No information available.

Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature.
Incompatible materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls	Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Wear protective gloves and protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	crystalline powder
Odor	No information available

Property	**Values**
pH	No information available
Melting point/freezing point	63 °C
Boiling point	218 °C
Flash point	No information available
Density	No information available
Evaporation rate	No information available
Upper flammability limits	No information available
Lower flammability limit	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

10. STABILITY AND REACTIVITY

Reactivity	Not applicable
Chemical stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	No information available.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products	Hydrogen fluoride. Carbon oxides. Phosgene.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Information on toxicological effects

Symptoms	No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity	No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity	100% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity	May cause long lasting harmful effects to aquatic life

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

14. TRANSPORT INFORMATION

DOT	Not regulated
IMDG	Not regulated
IATA	Not regulated

15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists
TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) ENCS (Japan):

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Perfluorononanoic acid	X	-	X	X	-	X	-	-	-	-

X - Listed
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations

16. OTHER INFORMATION

Revision note	No information available

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

Version 6.4
Revision Date 04/18/2021
Print Date 06/19/2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Perfluorooctanoic acid

Product Number : 171468
Brand : Aldrich
CAS-No. : 335-67-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 1B), H360
Effects on or via lactation, H362
Specific target organ toxicity - repeated exposure (Category 1), Liver, H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



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Signal word	Danger
Hazard statement(s)	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs (Liver) through prolonged or repeated exposure.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P263	Avoid contact during pregnancy/ while nursing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	Pentadecafluorooctanoic acid Perfluorocaprylic acid Perfluorooctanoic acid
Formula	:	$C_8HF_{15}O_2$
Molecular weight	:	414.07 g/mol
CAS-No.	:	335-67-1
EC-No.	:	206-397-9

Component	Classification	Concentration
pentadecafluorooctanoic acid		
	Acute Tox. 4; Skin Corr.	<= 100 %

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	1B; Eye Dam. 1; Carc. 2; Repr. 1B; Lact. ; STOT RE 1; H302, H314, H318, H351, H360, H362, H372	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Hydrogen fluoride
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

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8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: > 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: > 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Acid-resistant protective clothing

Respiratory protection
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: flakes Color: colorless

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b)	Odor	stinging
c)	Odor Threshold	No data available
d)	pH	2.6 at 1 g/l at 20 °C (68 °F)
e)	Melting point/freezing point	Melting point/range: 55 - 56 °C (131 - 133 °F) - lit.
f)	Initial boiling point and boiling range	189 °C 372 °F at 981 hPa - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	0.69 hPa at 25 °C (77 °F)
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	3.4 g/l at 20 °C (68 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 6.30 - Potential bioaccumulation, (Lit.)
p)	Autoignition temperature	No data available
q)	Decomposition temperature	> 300 °C (> 572 °F) -
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:
Strong oxidizing agents
Strong acids
Bases

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10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimate Oral - 500.1 mg/kg
(Expert judgment)

Acute toxicity estimate Inhalation - 4 h - 11.1 mg/l
(Expert judgment)

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitization

Germ cell mutagenicity
No data available

No data available
No data available

Carcinogenicity
Suspected of causing cancer.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (pentadecafluorooctanoic acid)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
May damage the unborn child.
Studies indicating a hazard to babies during the lactation period

Specific target organ toxicity - single exposure

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Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure. - Liver

Aspiration hazard

11.2 Additional Information

RTECS: RH0781000

Cough, Shortness of breath, Headache, Nausea, Vomiting
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

gastric pain
Nausea
Vomiting
Drowsiness
somnolence

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

No data available

Toxicity to daphnia and other aquatic invertebrates	Remarks: No data available (pentadecafluorooctanoic acid)
Toxicity to algae	Remarks: No data available (pentadecafluorooctanoic acid)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Discharge into the environment must be avoided.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)
UN number: 3261 Class: 8 Packing group: III
Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (pentadecafluorooctanoic acid)
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG
UN number: 3261 Class: 8 Packing group: III EMS-No: F-A, S-B
Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (pentadecafluorooctanoic acid)

IATA
UN number: 3261 Class: 8 Packing group: III
Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (pentadecafluorooctanoic acid)

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
pentadecafluorooctanoic acid	335-67-1	2018-02-01

New Jersey Right To Know Components

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SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.4 Revision Date: 04/18/2021 Print Date: 06/19/2021

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TCI AMERICA

Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	**Corrosive to eyes and skin on contact.** **Toxic compound, do not ingest or inhale. Avoid all contact with this material.** **Environmental hazard.** **This material is toxic to aquatic organisms and may cause long term adverse effects to the aquatic environment.** **POSSIBLE MUTAGEN. MINIMIZE EXPOSURE.**	

Section I. Chemical Product and Company Identification

Chemical Name: **Heptadecafluorooctanesulfonic Acid**

Catalog Number	H0781
Synonym	Perfluorooctanesulfonic Acid
Chemical Formula	$C_8HF_{17}O_3S$
CAS Number	1763-23-1

Supplier: TCI America
9211 N. Harborgate St.
Portland OR
1-800-423-8616

In case of Emergency Call: **Chemtrec®**
(800) 424-9300 (U.S.)
(703) 527-3887 (International)

Section II. Composition and Information on Ingredients

Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Heptadecafluorooctanesulfonic Acid	1763-23-1	Min. 98.0 (T)	This compound is classified as a possible mutagen. There is no acceptable exposure limit for a mutagen.	Rat LD_{50} (oral) 154 mg/kg

Section III. Hazards Identification

Acute Health Effects

Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage, particularly in mucous membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corneal damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested.
Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Chronic Health Effects

CARCINOGENIC EFFECTS : Not available.
MUTAGENIC EFFECTS : Not available.
TERATOGENIC EFFECTS : Not available.
DEVELOPMENTAL TOXICITY: Reproductive effects.
Rat TDLo Oral 50 mg/kg, female 19-20 days of pregnancy
TOXIC EFFECTS:
Effects on Newborn - Viability index
Effects on Newborn - Other neonatal measures or effects
Effects on Newborn - Growth statistics
Rat TDLo Oral 100 mg/kg, female 19-20 days of pregnancy
TOXIC EFFECTS:
Effects on Newborn - Stillbirth
Rat TDLo Unreported 50 mg/kg, female 19-20 days of pregnancy
TOXIC EFFECTS:
Specific Developmental Abnormalities - Respiratory system
Effects on Newborn - Live birth index
Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section IV. First Aid Measures

Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation

If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.

Ingestion

DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

Continued on Next Page **Emergency phone number (800) 424-9300**

Section V. Fire and Explosion Data

Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.
Flash Points	Not available.	Flammable Limits	Not available.
Combustion Products	These products are toxic carbon oxides (CO, CO_2), halogenated compounds, sulfur oxides (SO_x). WARNING: Highly toxic HF gas is produced during combustion.		
Fire Hazards	Not available.		
Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations.		

Section VI. Accidental Release Measures

Spill Cleanup Instructions	Corrosive material. Toxic material. Environmentally hazardous material. Possibly mutagenic material. Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information	CORROSIVE. TOXIC. ENVIRONMENTAL HAZARD. POSSIBLE MUTAGEN. Keep locked up. Keep container dry. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT ingest. Do not breathe dust. Never add water to this product. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively. Always store away from incompatible compounds such as oxidizing agents, alkalis (bases).

Section VIII. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Face shield. Lab coat. Dust respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. 
Exposure Limits	This compound is classified as a possible mutagen. There is no acceptable exposure limit for a mutagen.

Section IX. Physical and Chemical Properties

Physical state @ 20°C	Solid. (White crystal ~ powder.)	Solubility	Soluble in water.
Specific Gravity	Not available.		
Molecular Weight	500.13	Partition Coefficient	Not available.
Boiling Point	260°C (500°F)	Vapor Pressure	0.3 Pa (@ 25°C)
Melting Point	90°C (194°F)	Vapor Density	Not available.
Refractive Index	Not available.	Volatility	Not available.
Critical Temperature	Not available.	Odor	Not available.
Viscosity	Not available.	Taste	Not available.

Section X. Stability and Reactivity Data

Stability	This material is stable if stored under proper conditions. (See Section VII for instructions)
Conditions of Instability	Avoid excessive heat and light.
Incompatibilities	Reactive with oxidizing agents, alkalis (bases).

Continued on Next Page

Printed 1/6/2010.

Section XI. Toxicological Information

RTECS Number	RG9701600
Routes of Exposure	Eye Contact. Ingestion. Inhalation. Skin contact.
Toxicity Data	Rat LD_{50} (oral) 154 mg/kg
Chronic Toxic Effects	**CARCINOGENIC EFFECTS** : Not available. **MUTAGENIC EFFECTS** : Not available. **TERATOGENIC EFFECTS** : Not available. **DEVELOPMENTAL TOXICITY**: Reproductive effects. Rat TDLo Oral 50 mg/kg, female 19-20 days of pregnancy TOXIC EFFECTS: Effects on Newborn - Viability index Effects on Newborn - Other neonatal measures or effects Effects on Newborn - Growth statistics Rat TDLo Oral 100 mg/kg, female 19-20 days of pregnancy TOXIC EFFECTS: Effects on Newborn - Stillbirth Rat TDLo Unreported 50 mg/kg, female 19-20 days of pregnancy TOXIC EFFECTS: Specific Developmental Abnormalities - Respiratory system Effects on Newborn - Live birth index Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Acute Toxic Effects	Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage, particularly in mucous membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corneal damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested. Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Section XII. Ecological Information

Ecotoxicity	Not available.
Environmental Fate	Perfluorooctane sulfonic acid's production and use as a precursor for fluorinated surfactants has resulted in its release to the environment through various waste streams. If released to air, an estimated vapor pressure of 2.0X10-3 mm Hg at 25 deg C indicates perfluorooctane sulfonic acid will exist solely as a vapor in the ambient atmosphere. Vapor-phase perfluorooctane sulfonic acid will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 110 days. If released to soil, perfluorooctane sulfonic acid is expected to have no mobility based upon an estimated Koc of 100,000. Perfluorooctane sulfonic acid is essentially nonvolatile. Perfluoro compound recalcitrance can be attributed to the stability conferred by fluorine substitutes and the absence of structures susceptible to electrophilic or nucleophilic attack. Perfluorooctane sulfonic acid reached 0% of its theoretical BOD in four weeks using an activated sludge inoculum in the manometric respirometry test. If released into water, perfluorooctane sulfonic acid is expected to adsorb to suspended solids and sediment based upon the estimated Koc. Volatilization from water surfaces is not expected to be an important fate process as the compound is essentially nonvolatile; an estimated volatilization half-life for a model pond is 3 years if adsorption is considered. An estimated BCF of 56 suggests the potential for bioconcentration in aquatic organisms is moderate. Monitoring studies however would suggest that this compound is highly bioaccumulative. As a class, fluorinated organic compounds are resistant to hydrolysis. Occupational exposure to perfluorooctane sulfonic acid may occur through inhalation and dermal contact with this compound at workplaces where perfluorooctane sulfonic acid is produced or used. Monitoring data indicate that the general population may be exposed to perfluorooctane sulfonic acid via ingestion of contaminated fish and drinking water, and dermal contact with this compound and other products containing perfluorooctane sulfonic acid.

Section XIII. Disposal Considerations

Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Section XIV. Transport Information

DOT Classification	DOT CLASS 8: Corrosive material DOT CLASS 6.1: Toxic material
PIN Number	UN2923
Proper Shipping Name	Corrosive solid, toxic, n.o.s.
Packing Group (PG)	II
DOT Pictograms	

Continued on Next Page Emergency phone number (800) 424-9300

Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory (EPA)	This compound is **ON** the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS E: Corrosive solid. On NDSL.
EINECS Number (EEC)	217-179-8
EEC Risk Statements	R23/24/25- Toxic by inhalation, in contact with skin and if swallowed. R34- Causes burns. R46- May cause heritable genetic damage. R47- May cause birth defects. R51- Toxic to aquatic organisms. R53- May cause long-term adverse effects in the aquatic environment.
Japanese Regulatory Data	ENCS No. 2-1595

Section XVI. Other Information

Version 1.0
Validated on 1/6/2010.
Printed 1/6/2010.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

SAFETY DATA SHEET

Version 6.2
Revision Date 04/30/2021
Print Date 06/19/2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Perfluoropentanoic acid

Product Number : 396575
Brand : Aldrich
CAS-No. : 2706-90-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious eye damage (Category 1), H318
Reproductive toxicity (Category 2), H361

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H318 Causes serious eye damage.
H361 Suspected of damaging fertility or the unborn child.

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Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Nonafluorovaleric acid
Perfluoropentanoic acid
Nonafluoropentanoic acid

Formula : $C_5HF_9O_2$
Molecular weight : 264.05 g/mol
CAS-No. : 2706-90-3
EC-No. : 220-300-7

Component	Classification	Concentration
Perfluorovaleric acid		
	Eye Dam. 1; Repr. 2; H318, H361	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

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If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Hydrogen fluoride
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
required

Body Protection
protective clothing

Respiratory protection
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Color: light brown
b)	Odor	No data available

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c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	140 °C 284 °F - lit.
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Strong oxidizing agents

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10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimate Oral - 2,501 mg/kg
(Expert judgment)

Inhalation: No data available

Dermal: No data available
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Suspected of damaging the unborn child.
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Not available

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Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

Further information
Not classified as dangerous in the meaning of transport regulations.

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SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

SECTION 16: Other information

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.2 Revision Date: 04/30/2021 Print Date: 06/19/2021

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SAFETY DATA SHEET

Version 6.2
Revision Date 07/16/2021
Print Date 07/25/2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Perfluoroundecanoic acid

Product Number : 446777
Brand : Aldrich
CAS-No. : 2058-94-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 1B), H360
Effects on or via lactation, H362
Specific target organ toxicity - repeated exposure (Category 1), Liver, H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

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Hazard statement(s)	
H302 + H332	Harmful if swallowed or if inhaled.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs (Liver) through prolonged or repeated exposure.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P263	Avoid contact during pregnancy/ while nursing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	$C_{11}HF_{21}O_2$
Molecular weight	:	564.09 g/mol
CAS-No.	:	2058-94-8
EC-No.	:	218-165-4

Component	Classification	Concentration
Henicosafluoroundecanoic acid		
	Acute Tox. 4; Carc. 2; Repr. 1B; Lact. ; STOT RE 1; H302, H332, H351, H360, H362, H372	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Nature of decomposition products not known.
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
protective clothing

Respiratory protection
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 96 - 101 °C (205 - 214 °F) - lit.
f)	Initial boiling point and boiling range	160 °C 320 °F at 80 hPa - lit.
g)	Flash point	113 °C (235 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid,	No data available

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	gas)	
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	No data available
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Strong heating.

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimate Oral - 500.1 mg/kg
(Expert judgment)
Acute toxicity estimate Inhalation - 4 h - 11.1 mg/l
(Expert judgment)
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available
No data available
No data available

Carcinogenicity
Suspected of causing cancer.

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
May damage the unborn child.
Studies indicating a hazard to babies during the lactation period

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure. - Liver

Aspiration hazard
No data available

11.2 Additional Information

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

gastric pain
Nausea

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Vomiting
Drowsiness
somnolence

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

No data available

Toxicity to daphnia and other aquatic invertebrates	Remarks: No data available (Henicosafluoroundecanoic acid)
Toxicity to algae	Remarks: No data available (Henicosafluoroundecanoic acid)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

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Not dangerous goods

Further information
Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Henicosafluoroundecanoic acid	CAS-No. 2058-94-8	Revision Date

New Jersey Right To Know Components

Henicosafluoroundecanoic acid	CAS-No. 2058-94-8	Revision Date

SECTION 16: Other information

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

Creation Date 01-May-2012 **Revision Date** 11-Aug-2014 **Revision Number** 1

1. Identification

Product Name **Phenanthrene**

Cat No. : **AC130090000; AC130090050; AC130090500; AC130095000**

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4

Label Elements

Signal Word
Warning

Hazard Statements
Harmful if swallowed



Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Phenanthrene	85-01-8	>95

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Obtain medical attention. Wash off immediately with plenty of water for at least 15 minutes.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms/effects None reasonably foreseeable.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
1	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

- **Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- **Skin and body protection** Long sleeved clothing.
- **Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- **Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	95 - 101 °C / 203 - 213.8 °F
Boiling Point/Range	336 °C / 636.8 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 116 °C
Vapor Density	Not applicable
Relative Density	1.063
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition temperature	No information available
Viscosity	Not applicable
Molecular Formula	C14 H10
Molecular Weight	178.23

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenanthrene	1.8 g/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Phenanthrene	85-01-8	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea

Phenanthrene	Not listed	LC50 = 3.2 mg/L 96h	Not listed	LC50 = 0.35 mg/L 48h

Persistence and Degradability Insoluble in water May persist

Bioaccumulation/ Accumulation No information available.

Mobility . Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Phenanthrene	4.46

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
Hazard Class 9
Packing Group III

TDG

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
Hazard Class 9
Packing Group III

IATA

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*
Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class 9
Packing Group III

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Phenanthrene	X	X	-	201-581-5	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Phenanthrene	85-01-8	>95	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Phenanthrene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Phenanthrene	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Phenanthrene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class Non-controlled

16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date	01-May-2012
Revision Date	11-Aug-2014
Print Date	11-Aug-2014
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 6.10
Revision Date 09/06/2024
Print Date 09/06/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Phenol

Product Number : P5566
Brand : Sigma-Aldrich
Index-No. : 604-001-00-2
CAS-No. : 108-95-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311

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Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Germ cell mutagenicity (Category 2), H341
Specific target organ toxicity - repeated exposure (Category 2), Nervous system, Kidney, Liver, Skin, H373
Short-term (acute) aquatic hazard (Category 2), H401
Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word	Danger
Hazard Statements	
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs (Nervous system, Kidney, Liver, Skin) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Vesicant., Rapidly absorbed through skin.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Hydroxybenzene

Formula : C_6H_6O
Molecular weight : 94.11 g/mol
CAS-No. : 108-95-2
EC-No. : 203-632-7
Index-No. : 604-001-00-2

Component	Classification	Concentration
Phenol		
	Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Muta. 2; STOT RE 2; Aquatic Acute 2; Aquatic Chronic 2; H301, H331, H311, H314, H318, H341, H373, H401, H411 Concentration limits: >= 3 %: Skin Corr. 1B, H314; 1 - < 3 %: Skin Irrit. 2, H315; 1 - < 3 %: Eye Irrit. 2, H319;	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact
After contact with skin: rinse out with polyethylene glycol 400 or a mixture of polyethylene glycol 300/ethanol 2:1 and wash with plenty of water. If neither is available wash with plenty of water. Immediately take off contaminated clothing. Call a physician immediately.

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In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed
If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

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6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage stability Recommended storage temperature
2 - 8 °C
Handle and store under inert gas. Light sensitive.

Storage class
Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Phenol	108-95-2	TWA	5 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifiable as a human carcinogen		

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		Danger of cutaneous absorption		
		TWA	5 ppm 19 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		C	15.6 ppm 60 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	5 ppm 19 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		PEL	5 ppm 19 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Phenol	108-95-2	Phenol	250mg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Viton®
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please

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contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Viton®
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter A-(P3)
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts/vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	stinging
c)	Odor Threshold	0.005 ppm
d)	pH	6.0
e)	Melting point/freezing point	Melting point/ range: 38 - 43 °C (100 - 109 °F)
f)	Initial boiling point and boiling range	181.8 °C 359.2 °F at 1,013 hPa
g)	Flash point	79.0 °C (174.2 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 9.5 %(V) Lower explosion limit: 1.3 %(V)
k)	Vapor pressure	0.53 hPa at 20.0 °C (68.0 °F)
l)	Vapor density	3.2 at 20 °C(68 °F) - (Air = 1.0)
m)	Density	1.13 g/cm3 at 25 °C (77 °F) - DIN 51757
	Relative density	No data available

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n)	Water solubility	87 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 1.47 at 30 °C (86 °F) - (ECHA), Bioaccumulation is not expected.
p)	Autoignition temperature	715 °C (1319 °F) at 1,013 hPa
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	38.2 mN/m at 50.0 °C (122.0 °F)
Relative vapor density	3.2 at 20 °C (68 °F) - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .
Contains the following stabilizer(s):
Hypophosphorous acid (0.15 %)

10.3 Possibility of hazardous reactions

Exothermic reaction with:
Aluminum
Aldehydes
halogens
hydrogen peroxide
iron(III) compounds
Oxidizing agents
Strong acids
Strong bases
formaldehyde
Risk of explosion with:
nitrites
nitrates
salts of oxyhalogenic acids
peroxi compounds

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10.4 Conditions to avoid
Strong heating.

10.5 Incompatible materials
rubber, various plastics, various alloys, various metals

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimate Oral - 100.1 mg/kg
(Calculation method)
Acute toxicity estimate Oral - 100.1 mg/kg
(Expert judgment)
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Acute toxicity estimate Inhalation - 4 h - 0.51 mg/l - dust/mist(Calculation method)

Acute toxicity estimate Inhalation - 4 h - 0.51 mg/l - dust/mist

(Expert judgment)
Symptoms: Irritation, Lung edema
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Acute toxicity estimate Dermal - 660 mg/kg
(Calculation method)
LD50 Dermal - Rat - female - 660 mg/kg
(OECD Test Guideline 402)
No data available

Skin corrosion/irritation
Skin - In vitro study
Result: Causes burns.
(OECD Test Guideline 431)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Corrosive
(OECD Test Guideline 405)
Remarks: Causes serious eye damage.
Risk of blindness!

Respiratory or skin sensitization
Sensitisation test: - Guinea pig
Result: negative
Remarks: (IUCLID)

Germ cell mutagenicity
Suspected of causing genetic defects.
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster ovary cells
Metabolic activation: Metabolic activation

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Method: OECD Test Guideline 473
Result: positive
Test Type: Mutagenicity (mammal cell test): micronucleus.
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: positive

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure.
- Nervous system, Kidney, Liver, Skin
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Aspiration hazard
No data available

11.2 Additional Information

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Circulatory collapse, tachypnea, paralysis, Convulsions, Coma., necrosis of mouth and G.I. Tract, Jaundice, respiratory failure, cardiac arrest
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Onchorhynchus clarki - 8.9 mg/l - 96 h

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	(US-EPA)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Ceriodaphnia dubia (water flea) - 3.1 mg/l - 48 h (US-EPA)
Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata (algae) - 61.1 mg/l - 96 h (US-EPA)
Toxicity to bacteria	static test IC50 - microorganisms - 21 mg/l - 24 h Remarks: (ECHA)
Toxicity to fish(Chronic toxicity)	semi-static test NOEC - Fish - 0.077 mg/l - 60 d Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 0.16 mg/l - 16 d Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 100 h Result: 62 % - Readily biodegradable. (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Danio rerio (zebra fish) - 5 h at 25 °C - 2 mg/l(Phenol) Bioconcentration factor (BCF): 17.5 (OECD Test Guideline 305) Remarks: Does not bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 1671 Class: 6.1 Packing group: II
Proper shipping name: Phenol, solid
Reportable Quantity (RQ): 1000 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1671 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: PHENOL, SOLID
Marine pollutant : yes

IATA
UN number: 1671 Class: 6.1 Packing group: II
Proper shipping name: Phenol, solid

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Phenol	108-95-2	1000	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Phenol	108-95-2	1000	1000

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Phenol	108-95-2	10000
Phenol	108-95-2	500*

*: Solid in the molten or powdered form (particles < 100 microns), in solution, or meeting the NFPA reactivity criteria

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

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SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Phenol	108-95-2	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.10 Revision Date: 09/06/2024 Print Date: 09/06/2024

The life science business of Merck KGaA, Darmstadt, Germany
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SAFETY DATA SHEET

Version 3.10
Revision Date 03/03/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Potassium

Product Number : 244864
Brand : Aldrich

CAS-No. : 7440-09-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Skin corrosion (Category 1A), H314
Serious eye damage (Category 1), H318
Carcinogenicity (Category 1A), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H260 In contact with water releases flammable gases which may ignite spontaneously.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H350 May cause cancer.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232	Handle under inert gas. Protect from moisture.
P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281	Use personal protective equipment as required.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Reacts violently with water.
May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Formula : K
Molecular weight : 39.10 g/mol

Hazardous components

Component		Classification	Concentration
Potassium			
CAS-No. EC-No. Index-No.	7440-09-7 231-119-8 019-001-00-2	Water-react. 1; Skin Corr. 1A; Eye Dam. 1; H260, H314	>= 90 - <= 100 %
Paraffin oils			
CAS-No. EC-No.	8012-95-1 232-384-2	Carc. 1A; H350	>= 1 - < 5 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Potassium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Handle and store under inert gas.
Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Paraffin oils	8012-95-1	STEL	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation 2014 Adoption Not classifiable as a human carcinogen		
		Upper Respiratory Tract irritation 2014 Adoption Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Fragments Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 64 °C (147 °F)
f)	Initial boiling point and boiling range	774 °C (1,425 °F) at 1,013 hPa (760 mmHg)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available

	flammability or explosive limits	
k)	Vapour pressure	0.12 hPa (0.09 mmHg) at 260 °C (500 °F)
l)	Vapour density	No data available
m)	Relative density	0.860 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
Oxidizing agents, Strong oxidizing agents, Carbon oxides, Reacts violently with water., Reacts with water to generate Hydrogen gas.

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (Paraffin oils)

NTP: Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Paraffin oils)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2257 Class: 4.3 Packing group: I
Proper shipping name: Potassium
Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG
UN number: 2257 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: POTASSIUM

IATA
UN number: 2257 Class: 4.3 Packing group: I
Proper shipping name: Potassium
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Potassium	7440-09-7	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Potassium	7440-09-7	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Potassium	7440-09-7	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Paraffin oils	8012-95-1	1987-02-27

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
H260	In contact with water releases flammable gases which may ignite spontaneously.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.
Skin Corr.	Skin corrosion
Water-react.	Substances and mixtures, which in contact with water, emit flammable gases

HMIS Rating
Health hazard: 3

Chronic Health Hazard:	*
Flammability:	4
Physical Hazard	2

NFPA Rating

Health hazard:	3
Fire Hazard:	4
Reactivity Hazard:	2
Special hazard.I:	W

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.10 Revision Date: 03/03/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 3.9
Revision Date 05/23/2016
Print Date 06/21/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : *p*-Xylene

Product Number : 95680
Brand : Sigma-Aldrich
Index-No. : 601-022-00-9

CAS-No. : 106-42-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Skin irritation (Category 2), H315
Acute aquatic toxicity (Category 2), H401

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H226 Flammable liquid and vapour.
H312 + H332 Harmful in contact with skin or if inhaled
H315 Causes skin irritation.
H401 Toxic to aquatic life.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.

P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P322	Specific measures (see supplemental first aid instructions on this label).
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 1,4-Dimethylbenzene

Formula : C_8H_{10}

Molecular weight : 106.17 g/mol

CAS-No. : 106-42-3

EC-No. : 203-396-5

Index-No. : 601-022-00-9

Hazardous components

Component	Classification	Concentration
p-Xylene		
	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Aquatic Acute 2; H226, H312 + H332, H315, H401	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
p-Xylene	106-42-3	TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye & Upper Respiratory Tract irritation		

		Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		ST	150.000000 ppm 655.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	100.000000 ppm 435.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	100.000000 ppm 435.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		

		TWA	100 ppm 435 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
p-Xylene	106-42-3	Methylhippuric acids	1.5g/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			
		Methylhippuric acids	1,500.0000 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 30 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	13.0 °C (55.4 °F)
f)	Initial boiling point and boiling range	137.0 - 138.0 °C (278.6 - 280.4 °F)
g)	Flash point	25.0 °C (77.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7 %(V) Lower explosion limit: 1.1 %(V)
k)	Vapour pressure	21.3 hPa (16.0 mmHg) at 37.7 °C (99.9 °F) 12.0 hPa (9.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.86 g/cm3
n)	Water solubility	0.2 g/l
o)	Partition coefficient: n-octanol/water	log Pow: 3.15
p)	Auto-ignition temperature	529.0 °C (984.2 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	28.3 mN/m at 20.0 °C (68.0 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 5,000 mg/kg

LD50 Oral - Rat - male - 3,523 mg/kg

LC50 Inhalation - Rat - 4 h - 4550 ppm
Remarks: Lungs, Thorax, or Respiration:Chronic pulmonary edema. Liver:Other changes. Blood:Changes in cell count (unspecified).

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Moderate skin irritation - 4 h

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (p-Xylene)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: ZE2625000

narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression, Gastrointestinal disturbance, Liver injury may occur., Kidney injury may occur., Blood disorders

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 2.60 mg/l - 96 h
	LC50 - Carassius auratus (goldfish) - 18.00 mg/l - 24 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 35.50 - 63.10 mg/l - 48 h
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 3.20 - 4.40 mg/l - 72 h

12.2 Persistence and degradability

Biodegradability Result: 87.8 % - Readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 1307 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: XYLENES

IATA

UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
p-Xylene	106-42-3	2007-07-01

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H312 + H332	Harmful in contact with skin or if inhaled
H315	Causes skin irritation.
H332	Harmful if inhaled.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	3
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.9 Revision Date: 05/23/2016 Print Date: 06/21/2016

SAFETY DATA SHEET

Creation Date 01-Jul-2010 **Revision Date** 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Pyrene**

Cat No. : **AC180830000; AC180830250; AC180831000; AC180835000**

Synonyms Benzo[def]phenanthrene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Liver.	

Label Elements

Signal Word
Warning

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure



Precautionary Statements
Prevention
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not get in eyes, on skin, or on clothing
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation occurs: Get medical advice/attention
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Pyrene	129-00-0	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point	210 °C / 410 °F
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. Accidental release measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.
Methods for Containment and Clean Up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and storage

Handling	Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid ingestion and inhalation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	148 - 152 °C / 298 - 306 °F
Boiling Point/Range	393 °C / 739.4 °F @ 760 mmHg
Flash Point	210 °C / 410 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C16 H10
Molecular Weight	202.25

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Pyrene	2700 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Pyrene	129-00-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS)
STOT - repeated exposure Liver

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals. The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Pyrene	Not listed	Oncorhynchus mykiss: LC50 > 2mg/L 96h	Not listed	EC50 48h 1.8 mg/L EC50 48h 0.002-0.003 mg/L

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility .

Component	log Pow
Pyrene	4.88

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3077
Proper Shipping Name Environmentally hazardous substance, solid, n.o.s
Proper technical name Pyrene
Hazard Class 9
Packing Group III

TDG

UN-No UN3077
Proper Shipping Name Environmentally hazardous substance, solid, n.o.s.
Hazard Class 9
Packing Group III

IATA

UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s
Hazard Class	9
Packing Group	III

IMDG/IMO

UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s
Hazard Class	9
Packing Group	III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Pyrene	X	X	-	204-927-3	-		X	X	X	X	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Pyrene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Pyrene	5000 lb	5000 lb

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Pyrene	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

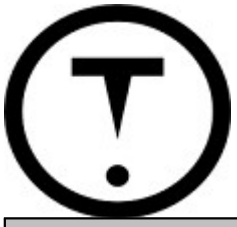
U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2B Toxic materials



16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 01-Jul-2010
Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 6.7
Revision Date 10/27/2023
Print Date 07/13/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : *sec*-Butylbenzene

Product Number : B90408
Brand : Aldrich
CAS-No. : 135-98-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226
Acute toxicity, Oral (Category 4), H302
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



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Signal Word	Warning
Hazard statement(s)	
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	2-Phenylbutane
Formula	:	$C_{10}H_{14}$
Molecular weight	:	134.22 g/mol
CAS-No.	:	135-98-8
EC-No.	:	205-227-0

Component	Classification	Concentration
sec-Butylbenzene		
	Flam. Liq. 3; Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1; H226, H302, H400, H410 M-Factor - Aquatic Acute: 1	<= 100 %

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For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air at elevated temperatures.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.
Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

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8.2 Exposure controls

Appropriate engineering controls

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Recommended Filter type: Filter type ABEK
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Color: colorless
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 75.5 °C (167.9 °F) - lit.
f)	Initial boiling point and boiling range	173 - 174 °C 343 - 345 °F - lit.
g)	Flash point	52.0 °C (125.6 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Lower explosion limit: 0.8 %(V)
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	0.863 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	418.0 °C (784.4 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity
Vapor/air-mixtures are explosive at intense warming.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Violent reactions possible with:
Strong oxidizing agents

10.4 Conditions to avoid
Heating.

10.5 Incompatible materials
various plastics

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 1,926 mg/kg
Remarks: (RTECS)
Inhalation: No data available
LD50 Dermal - Rabbit - > 13,760 mg/kg
Remarks: (RTECS)
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild eye irritant - 24 h
Remarks: (RTECS)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h
Remarks: (RTECS)

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

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identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: CY9100000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

Headache
Nausea
narcosis

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	semi-static test EC50 - Daphnia magna (Water flea) - 0.6 mg/l - 48 h (OECD Test Guideline 202) Remarks: (in analogy to similar products)
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0.42 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products)
	static test NOEC - Pseudokirchneriella subcapitata (green algae) - 0.26 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products)

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12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butyl benzenes
Reportable Quantity (RQ):
Marine pollutant: yes Poison Inhalation Hazard: No

IMDG
UN number: 2709 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: BUTYLBENZENES
Marine pollutant : yes
Marine pollutant : yes

IATA
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butylbenzenes

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SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
sec-Butylbenzene	135-98-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
sec-Butylbenzene	135-98-8	1993-04-24

SECTION 16: Other information

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.7 Revision Date: 10/27/2023 Print Date: 07/13/2024

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SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Selenium**

Cat No. : **AC419270000; AC419271000; AC419275000**

Synonyms None

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Specific target organ toxicity - (repeated exposure)	Category 2

Label Elements

Signal Word
Danger

Hazard Statements
Toxic if swallowed
Toxic if inhaled
May cause damage to organs through prolonged or repeated exposure



Precautionary Statements
Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray

Response

Get medical attention/advice if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth

Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

May cause long lasting harmful effects to aquatic life

3. Composition / information on ingredients

Component	CAS-No	Weight %
Selenium	7782-49-2	> 99.5

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air.

Hazardous Combustion Products
None known
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep under nitrogen.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Selenium	TWA: 0.2 mg/m³	(Vacated) TWA: 0.2 mg/m³	IDLH: 1 mg/m³ TWA: 0.2 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Selenium	TWA: 0.2 mg/m³	TWA: 0.2 mg/m³	TWA: 0.2 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Grey
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	217 - 222 °C / 422.6 - 431.6 °F
Boiling Point/Range	685 °C / 1265 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 345 °C
Vapor Density	No information available
Relative Density	4.810
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Se
Molecular Weight	78.96

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Acids, Strong oxidizing agents, Fluorine, oxygen, Metals

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Selenium	6700 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Selenium	7782-49-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
- **UN-No** UN3283
- **Hazard Class** 6.1
- **Packing Group** III

TDG
- **UN-No** UN3283
- **Hazard Class** 6.1
- **Packing Group** III

IATA
- **UN-No** 3283
- **Proper Shipping Name** SELENIUM COMPOUND, SOLID, N.O.S.
- **Hazard Class** 6.1
- **Packing Group** III

IMDG/IMO
- **UN-No** 3283
- **Proper Shipping Name** SELENIUM COMPOUND, SOLID, N.O.S.
- **Hazard Class** 6.1
- **Packing Group** III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Selenium	X	X	-	231-957-4	-		X	-	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Selenium	7782-49-2	> 99.5	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Selenium	-	-	X	X

Clean Air Act Not applicable

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Selenium	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Selenium	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Selenium	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1A Very toxic materials
D2B Toxic materials



16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
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End of SDS

SAFETY DATA SHEET

Version 4.6
Revision Date 12/02/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Silver

Product Number : 327093
Brand : Aldrich

CAS-No. : 7440-22-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : Ag
Molecular weight : 107.87 g/mol
CAS-No. : 7440-22-4
EC-No. : 231-131-3

Hazardous components

Component	Classification	Concentration
Silver		
		<= 100 %

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Silver/silver oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Air sensitive. Store under inert gas. Keep in a dry place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Silver	7440-22-4	TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Argyria		
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Argyria		
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Argyria		
		TWA	0.01 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 960 °C (1,760 °F) - lit.
f)	Initial boiling point and boiling range	2,212 °C (4,014 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	10.49 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxygen, Strong acids and strong bases

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male - > 5,000 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Carcinogenicity - Rat - Unreported
Tumorigenic:Tumors at site or application.

Carcinogenicity classification not possible from current data.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

May cause argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble albuminate of silver).

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Silver)
Reportable Quantity (RQ): 1 lbs

Poison Inhalation Hazard: No

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Silver	7440-22-4	1993-04-24

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Silver	7440-22-4	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date

Silver	7440-22-4	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Silver	7440-22-4	1993-04-24

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 12/02/2015 Print Date: 02/09/2016

Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **2-(2,4,5-Trichlorophenoxy)propionic acid**

Cat No. : **AC171700000; AC171700050**

Synonyms Silvex

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 2

Label Elements

Signal Word
Warning

Hazard Statements
Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer



Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear eye/face protection
Response
IF exposed or concerned: Get medical attention/advice
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Storage
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Silvex (2,4,5-TP)	93-72-1	97

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. Obtain medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Hydrogen chloride gas Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Do not ingest.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Beige
Odor	Slight
Odor Threshold	No information available
pH	No information available
Melting Point/Range	177 - 181 °C / 350.6 - 357.8 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	1.209
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C9 H7 Cl3 O3
Molecular Weight	269.51

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Hydrogen chloride gas, Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization No information available.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silvex (2,4,5-TP)	650 mg/kg (Rat)	3200 mg/kg (Rabbit)	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Silvex (2,4,5-TP)	93-72-1	Group 2B	Not listed	Not listed	X	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA
- **UN-No** 3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*
- **Hazard Class** 9
- **Packing Group** III

IMDG/IMO
- **UN-No** 3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
- **Hazard Class** 9
- **Packing Group** III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Silvex (2,4,5-TP)	-	-	-	202-271-2	-		X	X	-	-	-

Legend:
X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Silvex (2,4,5-TP)	X	100 lb	-	-

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Silvex (2,4,5-TP)	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Silvex (2,4,5-TP)	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1B Toxic materials
D2B Toxic materials



16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 4.11
Revision Date 03/05/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Sodium

Product Number : 483745
Brand : Aldrich

CAS-No. : 7440-23-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Carcinogenicity (Category 1A), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H260	In contact with water releases flammable gases which may ignite spontaneously.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232	Handle under inert gas. Protect from moisture.
P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281	Use personal protective equipment as required.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Reacts violently with water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Formula : Na
Molecular weight : 22.99 g/mol

Hazardous components

Component		Classification	Concentration
Sodium			
CAS-No. EC-No. Index-No.	7440-23-5 231-132-9 011-001-00-0	Water-react. 1; Skin Corr. 1B; Eye Dam. 1; H260, H314	>= 90 - <= 100 %
Paraffin oils			
CAS-No. EC-No.	8012-95-1 232-384-2	Carc. 1A; H350	>= 90 - <= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Handle and store under inert gas. Air sensitive.
Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Paraffin oils	8012-95-1	STEL	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation 2014 Adoption Not classifiable as a human carcinogen		
		Upper Respiratory Tract irritation 2014 Adoption Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Pieces
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 97.8 °C (208.0 °F) - lit.
f)	Initial boiling point and boiling range	883 °C (1,621 °F) - lit.
g)	Flash point	82 °C (180 °F)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.97 g/cm3

n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Air Do not allow water to enter container.
Exposure to moisture

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (Paraffin oils)

NTP: Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Paraffin oils)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Aspiration may lead to:, lipid pneumonia, Effects due to ingestion may include:, laxative effect, Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1428 Class: 4.3 Packing group: I
Proper shipping name: Sodium
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1428 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: SODIUM

IATA
UN number: 1428 Class: 4.3 Packing group: I
Proper shipping name: Sodium
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Paraffin oils	8012-95-1	1987-02-27

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
H260	In contact with water releases flammable gases which may ignite spontaneously.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.
Skin Corr.	Skin corrosion
Water-react.	Substances and mixtures, which in contact with water, emit flammable gases

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	4
Physical Hazard	2

NFPA Rating

Health hazard:	3
Fire Hazard:	4
Reactivity Hazard:	2
Special hazard.I:	W

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.11 Revision Date: 03/05/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 3.5
Revision Date 11/04/2015
Print Date 02/22/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : *tert*-Butylbenzene

Product Number : B90602
Brand : Aldrich

CAS-No. : 98-06-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226
Eye irritation (Category 2A), H319
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 2-Methyl-2-phenylpropane

Formula : $C_{10}H_{14}$

Molecular weight : 134.22 g/mol

CAS-No. : 98-06-6

EC-No. : 202-632-4

Hazardous components

Component	Classification	Concentration
tert-Butylbenzene		
	Flam. Liq. 3; Eye Irrit. 2A; Aquatic Acute 2; Aquatic Chronic 2; H226, H319, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -58 °C (-72 °F) - lit.
f)	Initial boiling point and boiling range	169 °C (336 °F) - lit.
g)	Flash point	34.0 °C (93.2 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	Lower explosion limit: 0.8 %(V)

	flammability or explosive limits	
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.867 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.80
p)	Auto-ignition temperature	450.0 °C (842.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 3,045 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Tremor. Gastrointestinal:Changes in structure or function of salivary glands.

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CY9120000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC0 - Leuciscus idus (Golden orfe) - 44 mg/l - 48.0 h
	LC50 - Leuciscus idus (Golden orfe) - 65 mg/l - 48.0 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 41 mg/l - 24 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butyl benzenes
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2709 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: BUTYLBENZENES
Marine pollutant:yes

IATA
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butylbenzenes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
tert-Butylbenzene	98-06-6	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
tert-Butylbenzene	98-06-6	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.5 Revision Date: 11/04/2015 Print Date: 02/22/2016

SAFETY DATA SHEET

Version 8.10
Revision Date 09/06/2024
Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Tetrachloroethylene

Product Number : 371696
Brand : Sigma-Aldrich
Index-No. : 602-028-00-4
CAS-No. : 127-18-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitization (Category 1), H317

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Short-term (acute) aquatic hazard (Category 2), H401
Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: Warning

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing mist or vapors.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	Perchloroethylene PCE
Formula	:	C_2Cl_4
Molecular weight	:	165.83 g/mol
CAS-No.	:	127-18-4
EC-No.	:	204-825-9
Index-No.	:	602-028-00-4

Component	Classification	Concentration
Tetrachlorethylene		
	Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Carc. 2; STOT SE 3; Aquatic Acute 2; Aquatic Chronic 2; H315, H319, H317, H351, H336, H401, H411 Concentration limits: >= 20 %: STOT SE 3, H336;	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Hydrogen chloride gas
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

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Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class
Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Tetrachlorethylene	127-18-4	TWA	25 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		
		STEL	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Confirmed animal carcinogen with unknown relevance to humans		
		Potential Occupational Carcinogen		

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		TWA	100 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		CEIL	200 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Peak	300 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		PEL	25 ppm 170 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	100 ppm 685 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		C	300 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Tetrachlorethylene	127-18-4	Tetrachloroethylene	3parts per million	In end-exhaled air	ACGIH - Biological Exposure Indices (BEI)
	Remarks	Prior to shift (16 hours after exposure ceases)			
		Tetrachloroethylene	0.5 mg/l	In blood	ACGIH - Biological Exposure Indices (BEI)
		Prior to shift (16 hours after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Viton®

Minimum layer thickness: 0.7 mm

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Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 240 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Color: colorless
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: -22 °C (-8 °F) - lit.
f)	Initial boiling point and boiling range	121 °C 250 °F - lit.
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available

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	flammability or explosive limits	
k)	Vapor pressure	25.3 hPa at 25.0 °C (77.0 °F) 17.3 hPa at 20.0 °C(68.0 °F)
l)	Vapor density	No data available
m)	Density	1.623 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	0.15 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 2.53 at 23 °C (73 °F) - Bioaccumulation is not expected.
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	32.1 mN/m at 20 °C (68 °F)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of explosion with:
Alkali metals
Aluminum
sodium amide
Barium
nitrogen dioxide
Oxygen
with
alkali hydroxides
Exothermic reaction with:
strong alkalis
Alkaline earth metals
strong alkalis
Light metals
Powdered metals

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Oxidizing agents
Strong acids
Strong bases
nitrous gases
Risk of ignition or formation of inflammable gases or vapours with:
zinc oxide
with
Aluminum

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
various plastics

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male and female - 3,420 mg/kg
(OECD Test Guideline 401)
Remarks: (ECHA)
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Skin irritation - 4 h
(OECD Test Guideline 404)
Remarks: (ECHA)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h
(Draize Test)
Remarks: (RTECS)

Respiratory or skin sensitization
Local lymph node assay (LLNA) - Mouse
Result: May cause sensitization by skin contact.
(OECD Test Guideline 429)
Remarks: (ECHA)

Germ cell mutagenicity
Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473

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Result: negative
Remarks: (ECHA)
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: (ECHA)

Test Type: Micronucleus test
Species: Mouse

Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative
Remarks: (ECHA)

Carcinogenicity
Suspected of causing cancer.

IARC:	2A - Group 2A: Probably carcinogenic to humans (Tetrachlorethylene)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (Tetrachlorethylene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Mouse - female - Oral - LOAEL (Lowest observed adverse effect level) - 390 mg/kg

RTECS: KX3850000
narcosis, Liver injury may occur., Kidney injury may occur.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 5 mg/l - 96 h Remarks: (ECHA)

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Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 7.50 mg/l - 48 h
Toxicity to algae	ErC50 - Chlamydomonas reinhardtii (green algae) - 3.64 mg/l - 72 h Remarks: (ECHA)
Toxicity to fish(Chronic toxicity)	flow-through test NOEC - Jordanella floridae - 1.99 mg/l - 10 d Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 0.51 mg/l - 28 d Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 11 % - Not readily biodegradable. (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Lepomis macrochirus (Bluegill) - 21 d - 0.00343 mg/l(Tetrachlorethylene) Bioconcentration factor (BCF): 49

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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SECTION 14: Transport information

DOT (US)
UN number: 1897 Class: 6.1 Packing group: III
Proper shipping name: Tetrachloroethylene
Reportable Quantity (RQ): 100 lbs
Reportable Quantity (RQ): 100 lbs
Reportable Quantity (RQ): 10 lbs
Reportable Quantity (RQ): 10 lbs
Marine pollutant: yes Poison Inhalation Hazard: No

IMDG
UN number: 1897 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TETRACHLOROETHYLENE
Marine pollutant : yes
Marine pollutant : yes

IATA
UN number: 1897 Class: 6.1 Packing group: III
Proper shipping name: Tetrachloroethylene

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Tetrachlorethylene	127-18-4	100	100
Tetrachlorethylene	127-18-4	100	100 (D039)
Tetrachlorethylene	127-18-4	10	10 (F001)
Tetrachlorethylene	127-18-4	10	10 (F002)

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Tetrachlorethylene 127-18-4 >= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know
Tetrachlorethylene 127-18-4

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Pennsylvania Right To Know

Tetrachlorethylene 127-18-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Tetrachlorethylene 127-18-4

Washington Chemicals of High Concern

Tetrachlorethylene 127-18-4

California Prop. 65

WARNING: This product can expose you to chemicals including Tetrachlorethylene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 8.10 Revision Date: 09/06/2024 Print Date: 09/07/2024

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SAFETY DATA SHEET

Version 4.11
Revision Date 10/29/2015
Print Date 03/03/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Tetrahydrofuran

Product Number : 401757
Brand : Sigma-Aldrich
Index-No. : 603-025-00-0

CAS-No. : 109-99-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Acute toxicity, Oral (Category 4), H302
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and

	understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	THF
Formula	:	C_4H_8O
Molecular weight	:	72.11 g/mol
CAS-No.	:	109-99-9
EC-No.	:	203-726-8
Index-No.	:	603-025-00-0
Registration number	:	01-2119444314-46-XXXX

Hazardous components

Component	Classification	Concentration
Tetrahydrofuran		
	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2A; Carc. 2; STOT SE 3; H225, H302, H319, H335, H351	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Dry residue is explosive. Store under inert gas. Test for peroxide formation periodically and before distillation.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Tetrahydrofuran	109-99-9	TWA	50.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Upper Respiratory Tract irritation Kidney damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		STEL	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Kidney damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	200.000000 ppm 590.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	250.000000 ppm 735.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200.000000 ppm 590.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Tetrahydrofuran	109-99-9	Tetrahydrofuran	2.0000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

Derived No Effect Level (DNEL)

Application Area	Exposure routes	Health effect	Value
Workers	Skin contact	Long-term systemic effects	25mg/kg BW/d
Consumers	Skin contact	Long-term systemic effects	15mg/kg BW/d
Workers	Inhalation	Long-term local effects	150 mg/m3
Workers	Inhalation	Long-term systemic effects	150 mg/m3
Consumers	Inhalation	Long-term systemic effects	62 mg/m3
Consumers	Inhalation	Acute local effects	150 mg/m3
Consumers	Inhalation	Acute systemic effects	150 mg/m3

Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	2.13 mg/kg
Marine water	0.432 mg/l
Fresh water	4.32 mg/l
Marine sediment	2.33 mg/kg
Fresh water sediment	23.3 mg/kg
Onsite sewage treatment plant	4.6 mg/l

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 18 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	ether-like
c)	Odour Threshold	No data available
d)	pH	ca.7
e)	Melting point/freezing	Melting point/range: -108.44 °C (-163.19 °F) at 1,013.25 hPa (760.00

	point	mmHg)
f)	Initial boiling point and boiling range	65.0 - 67.0 °C (149.0 - 152.6 °F) at 1,013.25 hPa (760.00 mmHg)
g)	Flash point	-17.0 °C (1.4 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 11.8 %(V) Lower explosion limit: 1.8 %(V)
k)	Vapour pressure	170 hPa (128 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	ca.2.5 at 25 °C (77 °F) - (Air = 1.0)
m)	Relative density	0.89 g/cm3
n)	Water solubility	soluble
o)	Partition coefficient: n-octanol/water	log Pow: 0.46
p)	Auto-ignition temperature	215 °C (419 °F) at 1,013 hPa (760 mmHg)
q)	Decomposition temperature	No data available
r)	Viscosity	0.518 mm2/s at 25 °C (77 °F) - 0.403 mm2/s at 50 °C (122 °F) -
s)	Explosive properties	Not explosive, In use may form flammable/explosive vapour-air mixture.
t)	Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2 Other safety information

Relative vapour density	ca.2.5 at 25 °C (77 °F) - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.
Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents, Acids

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 1,650 mg/kg

LC50 Inhalation - Rat - 6 h - 14.7 mg/l
Remarks: Material may be irritating to mucous membranes and upper respiratory tract.

LD50 Dermal - Rat - > 2,000 mg/kg

No data available

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Risk of serious damage to eyes.
(Draize Test)

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
In vivo tests did not show mutagenic effects

Ames test
S. typhimurium
Result: negative

Carcinogenicity

Suspected human carcinogens

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No toxicity to reproduction

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness. - Nervous system
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard
No aspiration toxicity classification

Additional Information
RTECS: LU5950000

Central nervous system depression, Cough, chest pain, Difficulty in breathing, Exposure to high airborne concentrations can cause anesthetic effects.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 2,160 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 382 mg/l - 24 h
Toxicity to algae	Growth inhibition IC50 - Algae - 3,700 mg/l - 192 h

12.2 Persistence and degradability

Biodegradability

(OECD Test Guideline 301)

Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.

12.3 Bioaccumulative potential

No bioaccumulation is to be expected (log Pow <= 4).

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2056 Class: 3 Packing group: II

Proper shipping name: Tetrahydrofuran

Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 2056 Class: 3 Packing group: II EMS-No: F-E, S-D

Proper shipping name: TETRAHYDROFURAN

IATA

UN number: 2056 Class: 3 Packing group: II

Proper shipping name: Tetrahydrofuran

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Tetrahydrofuran	109-99-9	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Tetrahydrofuran	109-99-9	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Tetrahydrofuran	109-99-9	1993-04-24

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
STOT SE	Specific target organ toxicity - single exposure

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.11 Revision Date: 10/29/2015 Print Date: 03/03/2016

Thallium

SAFETY DATA SHEET

1 PRODUCT AND SUPPLIER IDENTIFICATION

Product Name: Thallium Solid

Formula: Tl

Supplier: ESPI Metals
1050 Benson Way
Ashland, OR 97520

Telephone: 800-638-2581

Fax: 541-488-8313

Email: sales@espimetals.com

Emergency: Infotrac 800-535-5053 (US) or 352-323-3500 (24 hour)

Recommended Uses: Scientific Research

2 HAZARDS IDENTIFICATION

GHS Classification (29 CFR 1910.1200): Acute toxicity - oral, category 2.

GHS Label Elements:



Signal Word: Danger

Hazard Statements: H300 Fatal if swallowed.

Precautionary Statements: P264 Wash hands thoroughly after handling, P270 Do not eat, drink or smoke when using this product, P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician, P330 Rinse mouth, P405 Store locked up, P501 Dispose of contents/container in accordance with local, state or federal regulations.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient: Thallium

CAS#: 7440-28-0

%: 100

EC#: 231-138-1

4 FIRST AID MEASURES

General Measures: Emergency responders should take care to avoid secondary exposure to thallium if it is present. Wear appropriate protective equipment.

INHALATION: Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult. Seek immediate medical attention. If mouth-to-mouth is necessary always use a barrier or bag-valve-mask device.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

SKIN: Remove contaminated clothing, wash affected area with soap and water taking care not to break the skin and to cover all open wounds. Seek medical attention. Contaminated clothing should be safely contained and properly disposed of.

EYES: Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek medical attention immediately.

Most Important Symptoms/Effects, Acute and Delayed: Symptoms are usually delayed and include gastrointestinal distress and neurological symptoms. See section 11 for more information.

Indication of Immediate Medical Attention and Special Treatment: No other information available.

5 FIREFIGHTING MEASURES

Extinguishing Media: Use extinguishing media suitable for surrounding materials and type of fire.

Unsuitable Extinguishing Media: No further information available.

Specific Hazards Arising from the Material: Under fire conditions, thallium may release highly toxic fumes or gases.

Special Protective Equipment and Precautions for Firefighters: Full face, self-contained breathing apparatus and full protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate respiratory and protective equipment specified in section 8. Isolate spill area and provide ventilation. Avoid breathing dust or fume. Avoid contact with skin and eyes. Eliminate all sources of ignition.

Methods and Materials for Containment and Cleaning Up: Scoop up or vacuum with a system utilizing a HEPA filtration system and place in properly labeled sealed containers. Special precautions must be taken when changing filters on HEPA vacuum cleaners used to clean up hazardous materials. Avoid creating dusts. Avoid contamination of air and water.

Environmental Precautions: Do not allow to enter drains or to be released to the environment.

7 HANDLING AND STORAGE

Precautions for Safe Handling: Wear appropriate respiratory and protective equipment specified in section 8. Only trained personnel should work with this product. Handle in a well-ventilated area. Avoid exposure to high temperature. Avoid breathing fumes. Avoid contact with skin and eyes. Wash thoroughly before eating or smoking.

Conditions for Safe Storage, Including Any Incompatibilities: Store under dry, inert gas such as argon, or can also be stored under deaerated water. Store in sealed unbreakable containers; the original labeled shipping container when possible. Store in an area that is cool, dry and temperature-controlled, away from direct sunlight, heat and ignition sources or where freezing is possible. Do not store together with acids, halogens or oxidizers. See section 10 for more information on incompatible materials.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: Thallium (Soluble compounds, as Tl)

OSHA/PEL: 0.1 mg/m^3

ACGIH/TLV: 0.02 mg/m^3(inhalable)

Appropriate Engineering Controls: Handle in an enclosed, controlled process under dry argon. Whenever possible the use of local exhaust ventilation, process enclosure or other engineering controls is the preferred method of controlling exposure to meet established occupational exposure limits. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Clothing worn in areas of exposure to thallium dust or vapor should be restricted to the workplace and stored in special lockers.

Individual Protection Measures, Such as Personal Protective Equipment:

Respiratory Protection: When potential exposures are above the occupational limits, approved respirators must be used.

Eye Protection: Splash goggles or safety glasses.

Skin Protection: Wear impermeable gloves, protective work clothing as necessary.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Rod

Color: Gray metallic

Odor: Odorless

Odor Threshold: Not determined

pH: N/A

Melting Point: 303.5 ^{o}C

Boiling Point: 1457±10 ^{o}C

Flash Point: N/A

Evaporation Rate: N/A

Flammability: No data

Upper Flammable Limit: No data

Lower Flammable Limit: No data

Vapor Pressure: 1 mm Hg @ 825 ^{o}C

Vapor Density: N/A

Relative Density (Specific Gravity): 11.85 g/cc

Solubility in H_2O: Insoluble

Partition Coefficient (n-octanol/water): Not determined

Autoignition Temperature: No data

Decomposition Temperature: No data

Viscosity: N/A

10 STABILITY AND REACTIVITY

Reactivity: No data

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: High temperatures will generate toxic thallium oxide fumes.

Conditions to Avoid: Avoid high temperatures, reacts slowly with moist air.

Incompatible Materials: Oxidizing agents, strong acids, halogens, air and moisture.

Hazardous Decomposition Products: Thallium oxide fume.

11 TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, skin and eyes.

Symptoms of Exposure: Abdominal pain and vomiting, extreme pain in the extremities, lethargy, hair loss.

Acute and Chronic Effects: Almost all of the available information refers to ingestion of thallium compounds, largely due to accidental ingestion, intentional poisoning and suicide attempts. Adverse reactions are dose dependent and occur in 3 stages. Massive doses may cause gastrointestinal distress (nausea, vomiting and abdominal pain) within 30 minutes but symptoms are usually delayed for 8 hours or longer. Gastrointestinal symptoms from smaller doses may

be delayed 24-48 hours. This is followed by neurological effects 2-5 days or even longer after ingestion, although it may occur as early as 12 hours after massive exposure. Other effects include hair loss, severe pain in the extremities, lethargy, ataxia, back pain, abnormal reflexes, neuropathy, muscle weakness, mental abnormalities, tremors, abnormal vision, headache, coma, convulsion, and death. There was no information available for exposure to thallium metal specifically rather than thallium compounds, and little conclusive information regarding exposure via inhalation.

Acute Toxicity: No data

Carcinogenicity: **NTP**: Not identified as carcinogenic **IARC**: Not identified as carcinogenic

To the best of our knowledge the chemical, physical and toxicological characteristics of the substance are not fully known.

12 ECOLOGICAL INFORMATION

Ecotoxicity: LC50 - Cyprinodon variegatus (sheepshead minnow) - 21.0 mg/l - 96.0 h

Persistence and Degradability: No data

Bioaccumulative Potential: No data

Mobility in Soil: No data

Other Adverse Effects: Do not allow material to be released to the environment. No further relevant information available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Product: Dispose of in accordance with Federal, State and Local regulations.

Packaging: Dispose of in accordance with Federal, State and Local regulations.

14 TRANSPORT INFORMATION

UN Number: UN3288

UN Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Thallium)

Transport Hazard Class: 6.1

Packing Group: II

Marine Pollutant: Yes

15 REGULATORY INFORMATION

TSCA Listed: All components are listed.

Regulation (EC) No 1272/2008 (CLP): Acute toxicity - oral, category 2, Hazardous to the aquatic environment - acute hazard, category 3, Hazardous to the aquatic environment - chronic hazard, category 3.

Canada WHMIS Classification (CPR, SOR/88-66): Acute toxicity.

HMIS Ratings: **Health**: 3 **Flammability**: 0 **Physical**: 0

NFPA Ratings: **Health**: 3 **Flammability**: 0 **Instability**: 0

Chemical Safety Assessment: A chemical safety assessment has not been carried out.

16 OTHER INFORMATION

The information contained in this document is based on the state of our knowledge at the time of publication and is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. ESPI Metals makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information. ESPI Metals shall not be held liable for any damages resulting from handling or from contact with the above product. Users should satisfy themselves that they have all current data relevant to their particular use.

Prepared by: ESPI Metals

Revised/Reviewed: July 2015

Safety Data Sheets (SDS)

SECTION 1-IDENTIFICATION

Product name: Toluene

Other names:-

Proper shipping name: Toluene

Recommended use of the chemical and restrictions on use:
The major use of toluene is as a mixture added to gasoline to improve octane ratings. Used as a solvent for paint, resins, lacquers inks & adhesives. Component of solvent blends and thinners. Used in the manufacture of chemicals, dyes, explosives, benzoic acid. Some grades of toluene may contain traces of xylene and benzene.
The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.
WARNING: Intentional misuse by concentrating/inhaling contents may be lethal.

Manufacturer/Supplier Name: Taiwan SM Corp., Kaohsiung plant
Address: NO.7, Industrial 1st Rd, Lin-Yuan Kaohsiung County 83203, Taiwan, R.O.C.
Phone No.: 886-7-6414511

Emergency phone No./Fax No.: 886-7-6414511 Ext. 221 (on duty), 886-7-6414517 (off duty)/886-7-6423828

SECTION 2-HAZARDS IDENTIFICATION

GHS Classification:

Flammable Liquid Category 2
Acute Toxicity (Oral) Category 4
Skin Corrosion/ Irritation Category 2
Serious Eye Damage/ Eye Irritation Category 2
Specific Target Organ Toxicity Repeated Exposure Category 2
Hazardous To The Aquatic Environment (Acute) Category 3
Aspiration Hazard Category 1

GHS Label elements:

Hazard symbols



Signal word

Danger

Hazard statements

Highly flammable liquid and vapor
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause damage to organs through prolonged or repeated exposure.
May cause long lasting harmful effects to aquatic life.
May be fatal if swallowed and enters airways.

Precautionary statements

Use only in well ventilated area.
Control of exposure by mechanical ventilation in an unventilated or confined space.
Avoid breathing vapors and contact with skin and eyes.
Wear breathing apparatus/protective gloves/face protection.
Store in well-ventilated place.
Disposal must be in accordance with applicable federal, state, or local regulations.

Other hazards: —

SECTION 3-COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Chemical Name	wt% by weight	EINECS No.
00108-88-3	Toluene	97.0 min.	203-625-9
Synonyms	**Methylbenzol; Methylbenzene; Toluol; Phenylmethane**		

SECTION 4-FIRST AID MEASURES

Description of necessary first aid measures

Eye:

1. Flush immediately with warm water for at least 20 minutes.
2. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
3. If pain persists or recurs seek medical attention.
4. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin:

1. Removing contaminated clothing, shoes, and leathery wearings, cleaning procedure is available before reused or waste treatment.
2. Washing affected area thoroughly with soap and water for at least 20 minutes.
3. Call a Physician if irritation develops or persists.

Ingestion:

1. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomits.
2. If victim is conscious and alert, give 2～4 cupfuls of milk/water to dilute the substance in stomach.
3. Never give anything by mouth to an unconscious person.
4. Don't induce vomiting unless directed to do so by medical person.
5. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
6. Then seek for medical attention.

Inhalation:

1. Remove from further exposure and flush thoroughly with air.
2. Lay patient down. Keep warm and rested.
3. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
4. If respiratory irritation, seek immediate medical assistance and call a physician.

Most important symptoms/effects, acute and delayed

Headache, fatigue, drowsiness, insomnia, anorexia and pain in limbs, nervousness, impairment of memory.

Indication of immediate medical attention and special treatment needed, if necessary

For acute or short term repeated exposures to toluene:

Inhalation:

1. Inhalation overexposure can produce toxic effects. Monitor for respiratory distress.
2. If cough or difficulty in breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Administer supplemental oxygen with assisted ventilation, as required.
3. This material (or a component) sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material.
4. Administration of sympathomimetic drugs should be avoided.

Ingestion:

1. If ingested, this material presents a significant aspiration and chemical pneumonitis hazard.
2. Induction of emesis is not recommended.
3. Consider activated charcoal and/or gastric lavage.
4. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

SECTION 5-FIRE FIGHTING MEASURES

Extinguishing media

Foam、CO_2、Dry chemical、Water fog.

Specific hazards arising from the chemical

1. Liquid and vapor are highly flammable.
2. Severe fire hazard when exposed to heat, flame and/or oxidizers.
3. Vapor may travel a considerable distance to source of ignition.
4. Heating may cause expansion or decomposition leading to violent rupture of containers.
5. On combustion, may emit toxic fumes of carbon monoxide (CO).

Special protective equipment and precautions for fire-fighters

1. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.
2. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles.
3. Cover pooling liquid with foam.
4. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out.
5. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines.
6. Be aware that burning liquid will float on water.
7. Notify appropriate authorities of potential fire and explosion hazard if liquid enter sewers or waterways

SECTION 6-ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure

1. Personal protective equipment (specified in Section 8)
   Eyes : Chemical safety goggles are recommended, and a face shield is added when needed.
   Skin : Wear appropriate protective gloves to avoid skin contact.
   Clothing: When direct contact is likely, use rubberized clothings, apron and boots.
   Respiratory : When limits are exceeded, wear a respirator approved by NIOSH/MSHA for protection against organic dust, mists and vapors.
2. Remove all sources of ignition. No smoking, naked lights or ignition sources. Ventilate area of leak or spill.
3. Keep unnecessary and unprotected personnel from entering. Evacuate personnel from the danger area. Consult with an expert about the emergency procedures.

Environmental precautions

1. Prevent spillage from entering drains, surface, and groundwater.
2. Contain and recover liquid when possible. Use non-sparking tools and equipment.
3. Collect liquid in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand, earth), and place in a chemical waste container.
4. Report the accidental spill/release to Local/State government.

Methods and materials for containment and cleaning up

Minor spill:

1. Remove all ignition sources.
2. Clean up all spills immediately.
3. Avoid breathing vapors and contact with skin and eyes.
4. Control personal contact by using protective equipment.
5. Contain and absorb small quantities with vermiculite or other absorbent material.
6. Wipe up.
7. Collect residues in a flammable waste container.

Major spill

1. Clear area of personnel and move upwind.
2. Alert emergency responders and tell them location and nature of hazard.
3. May be violently or explosively reactive.
4. Wear breathing apparatus plus protective gloves.
5. Prevent spillage from entering drains or water course.
6. No smoking, naked lights or ignition sources. Increase ventilation.
7. Stop leak if safe to do so.
8. Water spray or fog may be used to disperse/absorb vapor.
9. Contain spill with sand, earth or vermiculite.
10. Use only spark-free shovels and explosion proof equipment.
11. Collect recoverable product into labeled containers for recycling..
12. Absorb remaining product with sand, earth or vermiculite.
13. Collect solid residues and seal in labeled drums for disposal.
14. Wash area and prevent runoff into drains.
15. If contamination of drains or waterways occurs, advise emergency services.

SECTION 7-HANDLING AND STORAGE

Precautions for safe handling

1. Wash thoroughly after handling.
2. Use only in well ventilated area.
3. Ground and bond containers when transferring.
4. Use spark-free tools and explosion proof equipment.
5. Empty containers retain product residue (liquid/vapor), and can be dangerous.
6. Do not pressurize, cut, weld, braze, solder, drill, or expose empty containers to heat, sparks or open flames.

Conditions for safe storage, including any incompatibilities

1. Store in original containers in approved flame-proof area.
2. No smoking, naked lights, heat or ignition sources.
3. DO NOT store in pits, depressions, basements or areas where vapors may be trapped.
4. Keep containers securely sealed.
5. Store away from incompatible materials in a cool, dry well ventilated area.
6. Protect containers against physical damage and check regularly for leaks.
7. Keep containers tightly closed and store in a cool, dry, well-ventilated place, plainly labeled, and out of closed vehicles.
8. Ground all equipment containing this material.
9. Observe manufacturer's storing and handling recommendations.
10. Containers should be able to withstand pressures expected from warming and cooling in storage. This flammable liquid should be stored in a separate safety cabinet or room. A refrigerated room is preferable for materials with a flash point temperature lower than 70°F (21°C).

SECTION 8-EXPOSURE CONTROLS, PERSONAL PROTECTION

OSHA - Final PELs : 200 ppm TWA.
OSHA Ceiling : 300ppm.
ACGIH : 50 ppm, skin -potential forcutaneous absorption.
NIOSH : 100 ppm TWA; 375 mg/m^3 TWA; 500 ppm IDLH.
Taiwan TWA : 100 ppm (skin).
Taiwan STEL : 125 ppm (skin).
Taiwan Ceiling : -------.
Taiwan BEI : 1 mg/l (before on duty).

Engineering control

1. Process should be located at least 17 meter (50 feet) away from open flames and all high temperature operations likely to cause ignition of the styrene monomer vapor.
2. In venting styrene monomer vapors, consideration should be given to possible halogenation of the vapors by low concentrations of free chlorine and bromine with the resultant formation of lacrimations.
3. Process should be designed so that the operator is not exposed to direct contact with Toluene or the vapor. The technical problems of designing equipment, providing adequate ventilation and operating procedures which promise maximum security and economy, can best be handled by competent engineers.
4. It is essential for safety that equipment be used and maintained as recommended by the manufacturer.
5. Tanks used to store or process Toluene should be closed vessels vented to a safe point of discharge in the outside atmosphere away from operating stations, roadways, and at least 17 meter (50 feet) from possible sources of ignitions. All sparks, flames, heated surface, or other sources of ignition should be kept away from all vents. It is advisable, to provide suction on vessels when inspection or observation openings are made, to minimize or eliminate escape of vapors.

Personal protective equipment

Eye Protection:
Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Chemical goggles should be worn during transfer operations or when there is a likelihood of misting, splashing, or spraying of this material. A suitable emergency eye wash water and safety shower should be located near the work station.

Skin protection:
Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Clothing:
Avoid skin contact. Wear long-sleeved fire-retardant garments (e.g., Nomex®) while working with flammable and combustible liquids. Additional chemical-resistant protective gear may be required if splashing or spraying conditions exist. This may include an apron, boots and additional facial protection. If product comes in contact with clothing, immediately remove soaked clothing and shower. Promptly remove and discard contaminated leather goods.

Respirators:
For known vapor concentrations above the occupational exposure guidelines (see below), use a NIOSH-approved organic vapor respirator if adequate protection is provided. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134). For airborne vapor concentrations that exceed the recommended protection factors for organic vapor respirators, use a full-face, positive-pressure, supplied air respirator. Due to fire and explosion hazards, do not enter atmospheres containing concentrations greater than 10% of the lower flammable limit of this product.

SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Transparent liquid	Upper/lower explosive limits : 1.2%～7.1%
Odour : pleasant aromatic petroleum odour	Vapor Pressure : 22 mmHg @20℃/68℉
Odour threshold : 0.16～37 ppm (detect) 1.9～69 ppm (recognition)	Vapor Density : 3.1 (air=1)
PH : Not available	Relative density : 0.86 (water=1)
Melting/Freezing Point : －95 ℃	Solubility in water : 54～58 mg/100 ml
Initial boiling point/boiling range : 110.6 ℃	Partition coefficient : 2.73 (n-octanol/water)
Flash point : 4.4 ℃ (closed cup)	Auto-ignition temperature : 480℃
Evaporation Rate : 2.24 (BuAc=1)	Decomposition temperature : Not available
Flammability (solid/gas) : Not available	Viscosity : 0.6 mPa.s max @20℃
Molecular Formula : $C_6H_5CH_3$	Molecular Weight : 92.056

SECTION 10-STABILITY AND REACTIVITY

Reactivity
Vapor is explosive when exposed to heat or flame

Chemical stability
Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reaction
Has not been reported.

Condition to avoid
Product is highly flammable – Keep away from sources of ignition. Avoid the higher temperatures. Keep away from open fire, heating elements and heat radiating surface and prevent from forming of the vapours mixtures with air in explosion limits.

Incompatible materials
Heat, flame, strong oxidizers, nitric and sulfuric acids, chlorine, nitrogen tetraoxide; will attack some forms of plastics, rubber, coatings.

Hazardous decomposition products
Carbon monoxide, carbon dioxide, hydrocarbons.

SECTION 11-TOXICOLOGICAL INFORMATION

Routes of exposure
Eye, Skin, inhalation, Ingestion.

Symptoms (treatments as indicated in Section 4)
Eye: The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated. There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain. There may be damage to the cornea. Unless treatment is prompt and adequate there may be permanent loss of vision. Conjunctivitis can occur following repeated exposure.

Skin: Contact with the material may damage the health of the individual; systemic effects may result following absorption. The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Ingestion: Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733). Considered an unlikely route of entry in commercial/industrial environments. The liquid may produce gastrointestinal discomfort and may be harmful if swallowed. Ingestion may result in nausea, pain and vomiting. Vomit entering the lungs by aspiration may cause potentially lethal chemical pneumonitis.

Inhalation: Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. If exposure to highly concentrated solvent atmosphere is prolonged this may lead to narcosis, unconsciousness, even coma and possible death. The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.

Chronic exposure: There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Toxicity
LD50: <870 mg/kg (rat, oral)
LC50: 6000 ppm/6h (rat, inhalation)

Chronic effect
Carcinogenicity:
ACGIH : A4-Not classifiable as a Human Carcinogen.
OSHA : Possible select carcinogen.
IARC : Group 3 carcinogen.

Epide miology: Not available.

Teratogenicity: Teratogenic effects have occurred in experimental animals.

Reproductive Effects: Adverse reproductive effects have occurred in experimental animals.

Neurotoxicity: Not available.

Mutagenicity: Not available.

SECTION 12-ECOLOGICAL INFORMATION

Ecotoxicity
LC_{50} (96 hr.) Fish: 7.3～22.8 mg/l
EC_{50} (48 hr.) Water flea: —
Biocencentration factor (BCF): 1.67～380

Persistence and degradability
1. The material are expected to form a slick on the surface of waters after release in calm sea conditions. This is expected to evaporate and enter the atmosphere where it will be degraded through reaction with hydroxyl radicals.
2. Some of the material will become associated with benthic sediments, and it is likely to be spread over a fairly wide area of sea floor. Marine sediments may be either aerobic or anaerobic. The material, in probability, is biodegradable, under aerobic conditions. Evidence also suggests that the hydrocarbons may be degradable under anaerobic conditions although such degradation in benthic sediments may be a relatively slow process.
3. Under aerobic conditions the material will degrade to water and carbon dioxide, while under aerobic processes it will produce water, methane, carbon dioxide and carbon dioxide.
4. Based on test results, as well as theoretical considerations, the potential for bioaccumulation may be high. Toxic effects are often observed in species such as blue mussel, daphnia, freshwater green algae, marine copepods and amphipods.

Half-life (Air): 10～104 hr
Half-life (Surface water): 96～528 hr
Half-life (Ground water): 168～672 hr
Half-life (Soil): 96～528 hr

Bioaccumulative potential
This material is not expected to significantly bioaccumulate.

Mobility in soil: —

Other adverse effects: —

SECTION 13-DISPOSAL CONSIDERATIONS

Residues and spilled material are hazardous waste due to ignitability. Disposal must be in accordance with applicable federal, state, or local regulations.
The container for this product can present explosion or fire hazards, even when emptied. To avoid risk of injury, do not cut, puncture, or weld on or near this container. Since the emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14-TRANSPORTATION INFORMATION

US DOT	Shipping Name	Toluene	Hazard Labels	
	Hazard Class	3		
	UN Number	1294		
	Packing Group	II		
Sea(IMO/IMDG)	Shipping Name	Toluene	Hazard Labels	
	Hazard Class	3.2		
	UN Number	1294		
	Packing Group	II		
	IMDG Code Page	3285		
	MARPOL	Not a DOT "Marine Pollutant" per 49 CFR 171.8.		
Air(ICAO/IATA)	Shipping Name	Toluene	Hazard Labels	
	Hazard Class	3.2		
	Subsidiary Class	1294		
	Packing Group	II		
RID/ ADR	No information available.			
Canadian TDG	Shipping Name	Toluene	Hazard Labels	
	Hazard Class	3		
	UN Number	1294		
	Packing Group	II		
	Subsidiary Class	9.2		

SECTION 15-REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 108-88-3 is listed on the TSCA inventory.

Health & Safety Reporting List

CAS# 108-88-3: Effective Date: 10/4/82; Sunset Date: 10/4/92

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 108-88-3 : final RQ = 1000 pounds (454 kg)

Section 302 (TPQ)

None of the chemicals in this material have a TPQ.

SARA Codes

CAS# 108-88-3 : acute, flammable.

Section 313

This material contains Toluene (CAS# 108-88-3, 99% & 100%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act

CAS# 108-88-3 is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act

CAS# 108-88-3 is listed as a Hazardous Substance under the CWA.
CAS# 108-88-3 is listed as a Priority Pollutant under the Clean Water Act.
CAS# 108-88-3 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

Toluene can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

WARNING: This product contains Toluene, a chemical known to the state of California to cause birth defects or other reproductive harm.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F
Risk Phrases : R 10 Flammable.
R 20 Harmful by inhalation.
Safety Phrases : S 9 Keep container in a well-ventilated place.
S 16 Keep away from sources of ignition - No smoking.
S 25 Avoid contact with eyes.
S 29 Do not empty into drains.
S 33 Take precautionary measures against static discharges.

WGK (Water Danger/Protection)

CAS# 108-88-3: 2

United Kingdom Occupational Exposure Limits

CAS# 108-88-3: OES-United Kingdom, TWA 50 ppm TWA; 191 mg/m3 TWA.
CAS# 108-88-3: OES-United Kingdom, STEL 150 ppm STEL; 574 mg/m3 STEL.

CANADA

CAS#100-42-5 is listed on Canada's DSL/NDSL list.
This product has a WHMIS classification of B2, D2A (99%)/B3, D2A (100%).
CAS# 105-05-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

- CAS# 108-88-3: OEL-AUSTRALIA:TWA 100 ppm (375 mg/m3);STEL 150 ppm (560 mg/m3)
- OEL-BELGIUM:TWA 100 ppm (377 mg/m3);STEL 150 ppm (565 mg/m3)
- OEL-CZECHOSLOVAKIA:TWA 200 mg/m3;STEL 1000 mg/m3
- OEL-DENMARK:TWA 50 ppm (190 mg/m3);Skin
- OEL-FINLAND:TWA 100 ppm (375 mg/m3);STEL 150 ppm; Skin
- OEL-FRANCE:TWA 100 ppm (375 mg/m3);STEL 150 ppm (560 mg/m3)
- OEL-GERMANY:TWA 100 ppm (380 mg/m3)
- OEL-HUNGARY:TWA 100 mg/m3;STEL 300 mg/m3;Skin
- OEL-JAPAN:TWA 100 ppm (380 mg/m3)
- OEL-THE NETHERLANDS:TWA 100 ppm (375 mg/m3);Skin
- OEL-THE PHILIPPINES:TWA 100 ppm (375 mg/m3)
- OEL-POLAND:TWA 100 mg/m3
- OEL-RUSSIA:TWA 100 ppm; STEL 50 mg/m3
- OEL-SWEDEN:TWA 50 ppm (200 mg/m3);STEL 100 ppm (400 mg/m3);Skin
- OEL-SWITZERLAND:TWA 100 ppm (380 mg/m3);STEL 500 ppm
- OEL-THAILAND:TWA 200 ppm; STEL 300 ppm
- OEL-TURKEY:TWA 200 ppm (750 mg/m3)
- OEL-UNITED KINGDOM:TWA 100 ppm (375 mg/m3);STEL 150 ppm; Skin OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

SECTION 16-OTHER INFORMATION

References and sources

1. CHEMINFO Data Bank, CCINFO CD, 2005-3
2. HAZARD TEXT Data Bank, TOMES PLUS CD, Vol.65, 2005
3. RETECS Data Bank, TOMES CPS CD, Vol.65, 2005
4. HSDB Data Bank, TOMES CPS CD, Vol.65, 2005
5. Hazardous Substance Data Bank, Environment Protection, Administration, Executive Yuan, ROC (Taiwan)
6. Chemwatch Data Bank, 2005-1
7. SDS, GHS in Taiwan, Council of Labor Affairs, Executive Yuan, ROC (Taiwan)

Version	Date	Remark
Version 1	06/01/1998	Original Version.
Version 2	04/20/2001	Updated 10 sections to 16 sections.
Version 3	08/01/2003	Updated “SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES”.
Version 4	01/01/2006	Updated “SECTION 14-TRANSPORTATION INFORMATION”.
Version 5	08/05/2008	Updated each section by GHS SDS.
Prepared by	Safety & Environment Protection Section, Taiwan SM Corporation Kaohsiung Plant.	

SAFETY DATA SHEET

Version 6.8
Revision Date 09/07/2024
Print Date 09/08/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : PCB No 28

Product Number : 35601
Brand : Sigma-Aldrich
Index-No. : 602-039-00-4
CAS-No. : 7012-37-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Specific target organ toxicity - repeated exposure (Category 2), H373
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

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For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Warning

Hazard Statements

H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P260	Do not breathe dust.
P273	Avoid release to the environment.
P314	Get medical advice/ attention if you feel unwell.
P391	Collect spillage.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : 2,4,4'-Trichlorobiphenyl
2,4,4'-PCB

Formula : $C_{12}H_7Cl_3$
Molecular weight : 257.54 g/mol
CAS-No. : 7012-37-5
EC-No. : 230-293-2
Index-No. : 602-039-00-4

Component	Classification	Concentration
2,4,4'-Trichlorobiphenyl		
	STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H373, H400, H410 Concentration limits: >= 0.005 %: STOT RE 2, H373; >= 0.005 %: STOT RE 2, H373; M-Factor - Aquatic Acute: 10 - Aquatic Chronic: 10	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Hydrogen chloride gas
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry.

Storage class
Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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Component	CAS-No.	Value	Control parameters	Basis
2,4,4'-Trichlorobiphenyl	7012-37-5	TWA	0.001 mg/m3	USA. NIOSH Recommended Exposure Limits
	Remarks	Potential Occupational Carcinogen		

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter type P2
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 56 °C (133 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	> 100.00 °C (> 212.00 °F)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	No data available
	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Violent reactions possible with:
strong oxidising agents

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (2,4,4'-Trichlorobiphenyl)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

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Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

11.2 Additional Information

RTECS: DV8840000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - > 0.16 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - > 0.16 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 3432 Class: 9 Packing group: II
Proper shipping name: Polychlorinated biphenyls, solid
Reportable Quantity (RQ):
Marine pollutant: yes Poison Inhalation Hazard: No

IMDG
UN number: 3432 Class: 9 Packing group: II EMS-No: F-A, S-A
Proper shipping name: POLYCHLORINATED BIPHENYLS, SOLID
Marine pollutant : yes
Marine pollutant : yes

IATA
UN number: 3432 Class: 9 Packing group: II
Proper shipping name: Polychlorinated biphenyls, solid

SECTION 15: Regulatory information

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know
No components are subject to the Massachusetts Right to Know Act.

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Pennsylvania Right To Know

2,4,4'-Trichlorobiphenyl 7012-37-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including 2,4,4'-Trichlorobiphenyl, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:
2,4,4'-Trichlorobiphenyl 7012-37-5

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.8 Revision Date: 09/07/2024 Print Date: 09/08/2024

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET
Xylene

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued 11.11.2013

1.1. Product identifier

Product name	Xylene
Chemical name	Xylene
Synonyms	Xylol, dimethyl benzene, xylenol
REACH Reg No.	01-2119488216-32-0000
CAS no.	1330-20-7
EC no.	215-535-7
Index no.	601-022-00-9
Article no.	13000000

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation For the preparation of paints and as a solvent. General purpose cleaner.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name	Fred Holmberg & Co AB
Office address	Geijersgatan 8
Postal address	Box 60056
Postcode	S-216 10
City	Limhamn
Country	Sweden
Tel	+46 (0)40 15 79 20
Fax	+46 (0)40 16 22 95
E-mail	info@holmberg.se
Website	http://www.holmberg.se/en/

1.4. Emergency telephone number

Emergency telephone 112 (Europe)

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to 67/548/EEC or 1999/45/EC	Xi; R38 Xn; R20/21 R10
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Flam. Liq. 3; H226; Acute tox. 4; H312; Skin Irrit. 2; H315; Acute tox. 4; H332;

2.2. Label elements

Hazard Pictograms (CLP)



Signal word	Danger
Hazard statements	H226 Flammable liquid and vapour. H312 Harmful in contact with skin. H315 Causes skin irritation. H332 Harmful if inhaled.
Precautionary statements	P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 Keep container tightly closed. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P331 Do NOT induce vomiting. P403 + P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Other hazards	Not known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Xylene	CAS no.: 1330-20-7 EC no.: 215-535-7 Index no.: 601-022-00-9	R10 Xn; R20/21 Xi; R38 Flam. Liq. 3; H226 Acute tox. 4; H332 Acute tox. 4; H312 Skin Irrit. 2; H315 Note : C	75 - 90 %
Ethylbenzene	CAS no.: 100-41-4 EC no.: 202-849-4 Index no.: 601-023-00-4 Synonyms: Ethylbenzene	F; R11 Xn; R20 Flam. Liq. 2; H225 Acute tox. 4; H332	10 - 25 %

Column headings	CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%
HH/HF/HE	T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremly flammable, F = Very flammable, N = Environmental hazard

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothes and rinse skin thoroughly with water.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
Ingestion	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. Rinse mouth with water. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Information for health personnel	Treat Symptomatically. Do not give victim anything to drink if he is

unconscious.

4.3. Indication of any immediate medical attention and special treatment needed

Specific details on antidotes	No recommendation given.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Solvent vapours may form explosive mixtures with air.
Hazardous combustion products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO_2).

5.3. Advice for firefighters

Fire fighting procedures	No specific fire fighting procedure given.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour.

6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Cleaning method	Dam and absorb spillages with sand, earth or other non-combustible material.

6.4. Reference to other sections

Other instructions	No recommendation given.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Keep away from heat, sparks and open flame. Take precautionary measures against static discharges. Mechanical ventilation may be required.

Protective Safety Measures

Advice on general occupational hygiene	Provide easy access to water supply and eye wash facilities.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep away from heat, sparks and open flame. Ground container and transfer equipment to eliminate static electric sparks. Store in a cool and well-ventilated place.

7.3. Specific end use(s)

Specific use(s)	Not entered.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL / PNEC

Method of testing	Contents
DNEL	Group: Industrial Exposure route: Inhalation Exposure frequency: Short term (acute) Critical Component: Etylbenzen Value: 289 mg/kg/dag

DNEL	Group: Industrial Exposure route: Inhalation Exposure frequency: Long term (repeated) Critical Component: Etylbenzen Type of effect: Systemic effect Value: 77 mg/kg/dag
DNEL	Group: Industrial Exposure route: Dermal Exposure frequency: Long term (repeated) Critical Component: Etylbenzen Type of effect: Systemic effect Value: 180 mg/kg/dag
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Critical Component: Etylbenzen Type of effect: Systemic effect Value: 14,8 mg/kg/dag
DNEL	Group: Consumer Exposure route: Dermal Exposure frequency: Long term (repeated) Critical Component: Etylbenzen Type of effect: Systemic effect Value: 108 mg/kg/dag
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Long term (repeated) Critical Component: Etylbenzen Type of effect: Systemic effect Value: 1,6 mg/kg/dag
DNEL	Group: Industrial Exposure route: Inhalation Exposure frequency: Short term (acute) Critical Component: xylen Value: 442 mg/kg/dag
DNEL	Group: Industrial Exposure route: Inhalation Exposure frequency: Long term (repeated) Critical Component: xylen Type of effect: Systemic effect Value: 221 mg/kg/dag
DNEL	Group: Industrial Exposure route: Dermal Exposure frequency: Long term (repeated) Critical Component: xylen Type of effect: Systemic effect Value: 3182 mg/kg/dag
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Short term (acute) Critical Component: xylen Value: 260 mg/kg/dag
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Critical Component: xylen Type of effect: Systemic effect

	Value: 65,3 mg/kg/dag
DNEL	Group: Consumer Exposure route: Dermal Exposure frequency: Long term (repeated) Critical Component: xylen Type of effect: Systemic effect Value: 1872 mg/kg/dag
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Long term (repeated) Critical Component: xylen Type of effect: Systemic effect Value: 12,5 mg/kg/dag
Exposure guidelines	Country of origin: Sverige Limit value type: NGV 200 mg/m3 OEL Short Term Value: 450 mg/m3 Source: Nationella hygieniska gränsvärden, AFS 2005:17
Other Information	Ovanstående NGV resp. KTV gäller både xylen och etylbenzen

8.2. Exposure controls

Occupational exposure limits	Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Protective gloves and goggles are recommended. Provide eyewash, quick drench.

Safety signs



Respiratory protection

Respiratory protection	Respiratory protection must be used if air contamination exceeds acceptable level. Use respiratory equipment with gas filter, type A2.

Hand protection

Hand protection	Use protective gloves. Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye / face protection

Eye protection	Use safety goggles or face shield in case of splash risk.

Skin protection

Skin protection (except hands)	Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene / Environmental

Specific hygiene measures	Wash hands after contact.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid.
Colour	Colourless.
Odour	Aromatic.
Comments, pH (as supplied)	Not relevant.
Melting point/melting range	Value: < -48 °C
Boiling point / boiling range	Value: 136-145 °C
Flash point	Value: 27 °C
Evaporation rate	Value: 13,5
Explosion limit	Value: 1-7,1 %
Vapour pressure	Value: 1 kPa Test temperature: 20 °C

Vapour density	Value: 3,7
Specific gravity	Value: 0,870 kg/m3 Test temperature: 20 °C
Solubility description	Soluble in: Organic solvents. Not soluble in water.
Partition coefficient: n-octanol/water	Value: 3,15
Spontaneous combustability	Value: > 432-530 °C
Viscosity	Value: < 0,90 mPas Method of testing: Kinematisk Test temperature: 25 °C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: Heating may cause a fire.

10.2. Chemical stability

Stability: Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: Not known.

10.4. Conditions to avoid

Conditions to avoid: Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid: Avoid contact with oxidising agents (e.g. nitric acid, peroxides and chromates). Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products: Fire creates: Carbon monoxide (CO). Carbon dioxide (CO_2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data: Acute Toxicity (Oral LD50): mg/kg (oral rat) > 2000
Acute Toxicity (Inhalation LC50): mg/l (vapours) (4h) > 20
Acute Toxicity (Dermal LD50): mg/kg Rabbit > 2000

Toxicological data for substances

Potential acute effects

Inhalation	In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Icke klassificerad som aspirationstoxisk (Not classified as asp. tox.)
Skin contact	Prolonged or frequent contact may cause redness, itching, eczema and skin cracking. Defats the skin.
Eye contact	May irritate and cause redness and pain.
Ingestion	Ingestion of large amounts may cause unconsciousness. However, ingestion may cause nausea, headache, dizziness and intoxication. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea. May cause irritation to the mouth and throat.

Delayed effects / repeated exposure

Sensitisation	Not known.
Chronic effects	None known.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	None.
Mutagenicity	Not known.
Teratogenic properties	Suspected of damaging the unborn child

Reproductive toxicity	Not known.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish	Value: 2 mg/l Method of testing: LC50 Fish, species: Roccus saxatilis Duration: 96h
Acute aquatic, algae	Value: > 3,2 mg/l Method of testing: IC50 Algae, species: Selenastrum Capricornum Duration: 72h
Acute aquatic, Daphnia	Value: 8,5 mg/l Method of testing: EC50 Daphnia, species: Daphnia magna Duration: 48h

12.2. Persistence and degradability

Persistence and degradability description	Lättnedbrytbar av biologiska organismer.
Chemical oxygen demand (COD)	Value: 5 Method of testing: COD
Biological oxygen demand (BOD)	Value: 0,55 Method of testing: BOD

12.3. Bioaccumulative potential

Bioaccumulative potential	Will not bio-accumulate.
Bioconcentration factor (BCF)	Value: 22 Method of testing: BCF

12.4. Mobility in soil

Mobility	The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment

PBT assessment results	This substance is not classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects / Remarks	None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Confirm disposal procedures with environmental engineer and local regulations. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Liquid components can be disposed of by incineration.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes

SECTION 14: Transport information

14.1. UN number

ADR	1307
RID	1307
IMDG	1307
ICAO/IATA	1307

14.2. UN proper shipping name

ADR	XYLENES

RID	XYLENES
IMDG	XYLENES
ICAO/IATA	XYLENES

14.3. Transport hazard class(es)

ADR	3
Hazard no.	30
RID	3
ADN	33
IMDG	3
ICAO/IATA	3

14.4. Packing group

ADR	III
RID	III
IMDG	III
ICAO/IATA	III

14.5. Environmental hazards

Comment	Not relevant.

14.6. Special precautions for user

EmS	F-E, S-D

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

EC no.	215-535-7

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other Label Information	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
Legislation and regulations	Dangerous Substance Directive 67/548/EEC. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). Avfallsförordningen (2011:927).

15.2. Chemical safety assessment

SECTION 16: Other information

Hazard symbol



R-phrases	R10 Flammable. R38 Irritating to skin. R20/22 Harmful by inhalation and if swallowed. R38 Irritating to skin.
S-phrases	S7 Keep container tightly closed. S16 Keep away from sources of ignition - No smoking.
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Flam. Liq. 3; H226; Acute tox. 4; H312; Skin Irrit. 2; H315;

	Acute tox. 4; H332;
List of relevant R-phrases (under headings 2 and 3).	R38 Irritating to skin. R11 Highly flammable. R10 Flammable. R20/21 Harmful by inhalation and in contact with skin. R20 Harmful by inhalation.
List of relevant H-phrases (Section 2 and 3).	H332 Harmful if inhaled. H312 Harmful in contact with skin. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H315 Causes skin irritation.
Responsible for safety data sheet	Fred Holmberg & Co AB

SAFETY DATA SHEET

Version 4.10
Revision Date 05/27/2016
Print Date 01/23/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : *trans*-1,2-Dichloroethene

Product Number : 48527
Brand : Supelco
Index-No. : 602-026-00-3

CAS-No. : 156-60-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Acute toxicity, Inhalation (Category 4), H332
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.

P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : *trans*-1,2-Dichloroethene
trans-1,2-Dichloroethylene
trans-Acetylene dichloride

Formula : $C_2H_2Cl_2$
Molecular weight : 96.94 g/mol
CAS-No. : 156-60-5
EC-No. : 205-860-2
Index-No. : 602-026-00-3

Hazardous components

Component	Classification	Concentration
trans-Dichloroethylene		
	Flam. Liq. 2; Acute Tox. 4; Aquatic Acute 3; Aquatic Chronic 3; H225, H332, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2 - 8 °C

Light sensitive. Air and moisture sensitive. Refrigerate before opening.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
trans-Dichloroethylene	156-60-5	TWA	200.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Eye irritation		

		TWA	200.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Eye irritation		
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Eye irritation		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: light yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -50 °C (-58 °F) - lit.
f)	Initial boiling point and boiling range	48 °C (118 °F) - lit.
g)	Flash point	6.0 °C (42.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or	Upper explosion limit: 12.8 %(V) Lower explosion limit: 9.7 %(V)

	explosive limits	
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.257 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents, Bases

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 1,235 mg/kg

LD50 Oral - Mouse - 2,122 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia.

LC50 Inhalation - Rat - 24100 ppm
Remarks: Behavioral:Somnolence (general depressed activity).

LD50 Dermal - Rabbit - > 5,000 mg/kg
Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

prolonged or repeated exposure can cause:, narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 220.00 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1150 Class: 3 Packing group: II
Proper shipping name: 1,2-Dichloroethylene
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 1150 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: 1,2-DICHLOROETHYLENE

IATA

UN number: 1150 Class: 3 Packing group: II
Proper shipping name: 1,2-Dichloroethylene

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
trans-Dichloroethylene	156-60-5	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
trans-Dichloroethylene	156-60-5	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
trans-Dichloroethylene	156-60-5	1993-04-24

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H402	Harmful to aquatic life.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.10 Revision Date: 05/27/2016 Print Date: 01/23/2017

SAFETY DATA SHEET

Version 4.6
Revision Date 03/02/2015
Print Date 02/18/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Trichloroethylene

Product Number : 251402
Brand : Sigma-Aldrich
Index-No. : 602-027-00-9

CAS-No. : 79-01-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P280	Wear protective gloves.
P281	Use personal protective equipment as required.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	TCE Trichloroethene
Formula	:	C_2HCl_3
Molecular weight	:	131.39 g/mol
CAS-No.	:	79-01-6
EC-No.	:	201-167-4
Index-No.	:	602-027-00-9

Hazardous components

Component	Classification	Concentration
Trichloroethylene Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)		
	Skin Irrit. 2; Eye Irrit. 2A; Muta. 2; Carc. 1B; STOT SE 3; Aquatic Acute 3; Aquatic Chronic 3; H315, H319, H336, H341, H350, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Light sensitive. Handle and store under inert gas.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Trichloroethylene	79-01-6	TWA	10.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment cognitive decrement Renal toxicity Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen		
		STEL	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment cognitive decrement Renal toxicity Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen		
		Potential Occupational Carcinogen See Appendix C See Appendix A		
		See Table Z-2		
		TWA	100.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.19-1967		
		CEIL	200.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.19-1967		
		Peak	300.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.19-1967		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Trichloroethylene	79-01-6	Trichloroacetic acid	15.0000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		Trichloroethanol	0.5000 mg/l	In blood	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			
		Trichloroethylene		In blood	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			
		Trichloroethylene		In end-exhaled air	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -84.8 °C (-120.6 °F) - lit.
f)	Initial boiling point and boiling range	86.7 °C (188.1 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	Upper explosion limit: 10.5 %(V)

	flammability or explosive limits	Lower explosion limit: 8 %(V)
k)	Vapour pressure	81.3 hPa (61.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.463 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 2.29log Pow: 5
p)	Auto-ignition temperature	410.0 °C (770.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents, Strong bases, Magnesium

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 4,920 mg/kg

LC50 Inhalation - Mouse - 4 h - 8450 ppm

LD50 Dermal - Rabbit - > 20,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Severe skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation - 24 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.
In vitro tests showed mutagenic effects

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC:	1 - Group 1: Carcinogenic to humans (Trichloroethylene)
NTP:	Reasonably anticipated to be a human carcinogen (Trichloroethylene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KX4550000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Exposure to and/or consumption of alcohol may increase toxic effects., Gastrointestinal disturbance, Kidney injury may occur., narcosis
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 41 mg/l - 96.0 h
	LOEC - other fish - 11 mg/l - 10.0 d
	NOEC - Oryzias latipes - 40 mg/l - 10.0 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 18.00 mg/l - 48 h
Toxicity to algae	IC50 - Pseudokirchneriella subcapitata (green algae) - 175.00 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Does not bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1710 Class: 6.1 Packing group: III
Proper shipping name: Trichloroethylene
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1710 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TRICHLOROETHYLENE

IATA
UN number: 1710 Class: 6.1 Packing group: III
Proper shipping name: Trichloroethylene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Trichloroethylene	CAS-No. 79-01-6	Revision Date 2011-09-01
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	CAS-No. 79-01-6	Revision Date 2011-09-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H402	Harmful to aquatic life.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 03/02/2015 Print Date: 02/18/2016

SAFETY DATA SHEET

Version 4.17
Revision Date 03/03/2015
Print Date 02/19/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Trichlorofluoromethane

Product Number : 254991
Brand : Aldrich

CAS-No. : 75-69-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Dermal (Category 4), H312

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)
H312 Harmful in contact with skin.

Precautionary statement(s)
P280 Wear protective gloves/ protective clothing.
P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : Fluorotrichloromethane
CFC-11

Formula	:	CCl_3F CCl_3F
Molecular weight	:	137.37 g/mol
CAS-No.	:	75-69-4
EC-No.	:	200-892-3

Hazardous components

Component	Classification	Concentration
Trichlorofluoromethane		
	Acute Tox. 4; H312	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas, Hydrogen fluoride

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

Contents under pressure.
Storage class (TRGS 510): Non Combustible Liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Trichlorofluoromethane	75-69-4	C	1,000.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Cardiac sensitization Not classifiable as a human carcinogen		
		C	1,000.000000 ppm 5,600.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000.000000 ppm 5,600.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 30 min

Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-110.99 - -109.99 °C (-167.78 - -165.98 °F)
f)	Initial boiling point and boiling range	23.7 °C (74.7 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	885.7 hPa (664.3 mmHg) at 20.0 °C (68.0 °F) 2,701.2 hPa (2,026.1 mmHg) at 55.0 °C (131.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.494 g/cm3 at 25 °C (77 °F)
n)	Water solubility	1 g/l
o)	Partition coefficient: n-octanol/water	log Pow: 2.53
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available

t) Oxidizing properties No data available

9.2 Other safety information

Surface tension 18.0 mN/m at 25.0 °C (77.0 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents, Sodium/sodium oxides, Potassium, Magnesium, Aluminum, Zinc

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - > 15,000 mg/kg

LC50 Inhalation - Rat - 0.3 h - 130000 ppm
Remarks: Behavioral:Tremor. Behavioral:Convulsions or effect on seizure threshold. Respiratory disorder

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: PB6125000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Nausea, Dizziness, Headache, Vomiting, Diarrhoea, Abdominal pain, Weakness, Unconsciousness

Liver -

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Trichlorofluoromethane)
Reportable Quantity (RQ): 5000 lbs

Poison Inhalation Hazard: No

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Trichlorofluoromethane	75-69-4	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Trichlorofluoromethane	75-69-4	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Trichlorofluoromethane	75-69-4	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Trichlorofluoromethane	75-69-4	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
H312	Harmful in contact with skin.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.17 Revision Date: 03/03/2015 Print Date: 02/19/2016

SAFETY DATA SHEET
CHROMIUM HARD,TRIVALENT

1. Identification

Product identifier

Product name CHROMIUM HARD,TRIVALENT

Product number 2403

Recommended use of the chemical and restrictions on use

Application Industrial Use

Details of the supplier of the safety data sheet

Supplier

SIFCO Applied Surface Concepts
5708 E. Schaaf Road
Independence, Ohio 44131
U.S.A.
Tel.: +1 216-524-0099
Fax: +1 216-524-6331
E-Mail: info@sifcoasc.com

Emergency telephone number

Emergency telephone CHEMTREC (United States) (800) 424-9300; CHEMTREC (International) +1 703-527-3887

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335

Environmental hazards Aquatic Acute 3 - H402

Label elements

Pictogram



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

CHROMIUM HARD,TRIVALENT

Precautionary statements

P260 Do not breathe vapor/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/ container in accordance with national regulations.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P284 [In case of inadequate ventilation] wear respiratory protection.
P301+P310 If swallowed: Immediately call a poison center/ doctor.
P302+P352 If on skin: Wash with plenty of water.

Contains AMMONIUM FORMATE, CHROMIUM (III) SULPHATE, AMMONIA ...%

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

AMMONIUM FORMATE **25-30%**

CAS number: 540-69-2

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
STOT SE 3 - H335

AMMONIUM CHLORIDE **5-10%**

CAS number: 12125-02-9

Classification
Acute Tox. 4 - H302
Eye Irrit. 2 - H319

CHROMIUM (III) SULPHATE **5-10%**

CAS number: 10101-53-8

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Corr. 1B - H314
Eye Dam. 1 - H318
STOT SE 3 - H335

CHROMIUM HARD,TRIVALENT

Potassium Sulfate	**1-5%**
CAS number: 7778-80-5	
Classification Not Classified	
AMMONIA ...%	**1-5%**
CAS number: 1336-21-6 M factor (Acute) = 1	
Classification Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400	
SODIUM BROMIDE	**<1%**
CAS number: 7647-15-6	
Classification Acute Tox. 4 - H312	

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air at once. Get medical attention.

Ingestion Get medical attention immediately. Do not induce vomiting.

Skin Contact Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes and get medical attention.

Eye contact Remove affected person from source of contamination. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

Inhalation Coughing, chest tightness, feeling of chest pressure.

Ingestion May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.

Skin contact May cause serious chemical burns to the skin.

Eye contact Causes severe burns. May cause serious eye damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture

CHROMIUM HARD,TRIVALENT

Specific hazards Corrosive gases or vapors.

Advice for firefighters

Protective actions during firefighting Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapors. Provide adequate general and local exhaust ventilation.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and dispose of spillage as indicated in Section 13. Wash thoroughly after dealing with a spillage.

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapors and spray/mists. Provide adequate general and local exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight.

Storage class Corrosive storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Exposure controls

Protective equipment



Appropriate engineering controls As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.

Eye/face protection Tight-fitting safety glasses.

CHROMIUM HARD,TRIVALENT

Hand protection	It is recommended that chemical-resistant, impervious gloves are worn. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It is recommended that gloves are made of the following material: Nitrile rubber.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Color	Dark. Blue.
Odor	Acidic.
pH	pH (concentrated solution): 6.0-7.0
Initial boiling point and range	100°C/212°F @
Relative density	1.150-1.180
Other information	Not available.

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
Materials to avoid	None known.
Hazardous decomposition products	None at ambient temperatures.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 4,284.49

Acute toxicity - dermal

ATE dermal (mg/kg) 19,400.35

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 194.0

CHROMIUM HARD,TRIVALENT

Inhalation	Vapors irritate the respiratory system.
Ingestion	Causes severe burns. May cause chemical burns in mouth, esophagus and stomach.
Skin Contact	May cause serious chemical burns to the skin.
Eye contact	Causes serious eye damage. Immediate first aid is imperative.
Acute and chronic health hazards	May cause burns in mucous membranes, throat, esophagus and stomach.
Route of exposure	Ingestion Inhalation Skin and/or eye contact

Toxicological information on ingredients.

AMMONIUM FORMATE

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	2,250.0
Species	Mouse
ATE oral (mg/kg)	2,250.0

CHROMIUM (III) SULPHATE

Acute toxicity - oral	
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
ATE dermal (mg/kg)	1,100.0
Acute toxicity - inhalation	
ATE inhalation (vapours mg/l)	11.0

Potassium Sulfate

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	6,600.0
Species	Rat
ATE oral (mg/kg)	6,600.0

AMMONIA ...%

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	350.0
Species	Rat

SODIUM BROMIDE

Acute toxicity - oral

CHROMIUM HARD,TRIVALENT

Acute toxicity oral (LD_{50} mg/kg)	3,500.0
Species	Rat
ATE oral (mg/kg)	3,500.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit
ATE dermal (mg/kg)	2,000.0

12. Ecological information

Ecotoxicity The product contains a substance which may have hazardous effects on the environment.

Toxicity No data available.

Ecological information on ingredients.

Potassium Sulfate

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hour: 680 mg/l, Pimephales promelas (Fat-head Minnow)

AMMONIA ...%

Acute aquatic toxicity

$LE(C)_{50}$ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC_{50}, 96 hours: 0.53 mg/l, Freshwater fish
LC_{50}, 96 hours: 0.75 -3.4 mg/l, Freshwater fish
LC_{50}, 96 hours: 8.2 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 0.66 mg/l, Daphnia magna

SODIUM BROMIDE

Acute aquatic toxicity

Acute toxicity - fish NOEC, 96 hour: 7800 mg/l, Oryzias latipes (Red killifish)
LC_{50}, 96 hour: 160,000 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic invertebrates NOEC, 48 hour: 7800 mg/l, Daphnia magna
EC_{50}, 48 hours: 5800 mg/l, Daphnia magna

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential The product does not contain any substances expected to be bioaccumulating.

Mobility in soil

Mobility The product is soluble in water.

CHROMIUM HARD,TRIVALENT

Other adverse effects

Other adverse effects Not determined.

13. Disposal considerations

Waste treatment methods

General information Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Proper shipping name (DOT) NOT RESTRICTED LIQUID

Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

Packing group

Packing group (International) Not applicable.

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

National regulations The customer is advised to check if there are specific local or national regulations specifically applicable to the chemicals contained in the product. The hazards statement for this product is in accordance with international regulations, always observing the most stringent requirements.

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
Exempt.

CHROMIUM HARD,TRIVALENT

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Ammonium Chloride
Final CERCLA RQ: 5,000 lbs
Chromium Sulphate
Final CERCLA RQ: 1,000 lbs

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Exempt.

SARA 313 Emission Reporting

Chromium Sulphate

CAA Accidental Release Prevention

HAP
Chromium Sulphate

SARA (311/312) Hazard Categories

Acute
Chronic

OSHA Highly Hazardous Chemicals

Exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Chromium Sulphate

California Directors List of Hazardous Substances

Ammonium Chloride
Chromium Sulphate

Inventories

US - TSCA

All ingredients are present.

16. Other information

Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Carc. = Carcinogenicity Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Flam. Liq. = Flammable liquid Muta. = Germ cell mutagenicity Resp. Sens. = Respiratory sensitisation Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation STOT RE = Specific target organ toxicity-repeated exposure STOT SE = Specific target organ toxicity-single exposure
Revision date	8/10/2018
Revision	3

CHROMIUM HARD,TRIVALENT

Hazard statements in full	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H402 Harmful to aquatic life.
NFPA - health hazard	Extremely hazardous, serious injury. (3)
NFPA - flammability hazard	Will not burn. (0)
NFPA - instability hazard	Normally stable. (0)

The Information in this data sheet is believed to be correct but neither we nor our employees or agents give any warranty or make any representation to the accuracy thereof and accept no liability for any loss, injury or damage which may result in it's use. The sole purpose of this data sheet is to provide guidance on the safe handling and use of the products to which it relates. It does not form part of any product specification nor part of any contract. It is not practical for the guidance and information in this data sheet to cover every conceivable application of a product and as we may not be aware of the use to which the products covered by this data sheet are to be put it remains the responsibility of the user to conduct it's own tests and to satisy itself as to the suitability of the product.

SAFETY DATA SHEET

Version 4.6
Revision Date 04/24/2015
Print Date 02/08/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Vanadium

Product Number : 262935
Brand : Aldrich

CAS-No. : 7440-62-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : V
Molecular weight : 50.94 g/mol
CAS-No. : 7440-62-2
EC-No. : 231-171-1

Hazardous components

Component	Classification	Concentration
Vanadium		
		<= 100 %

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Vanadium/vanadium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Handle and store under inert gas. Keep in a dry place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Vanadium	7440-62-2	TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing	Melting point/range: 1,890 °C (3,434 °F) - lit.

	point	
f)	Initial boiling point and boiling range	3,380 °C (6,116 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	10.67 hPa (8.00 mmHg) at 20 °C (68 °F)
l)	Vapour density	No data available
m)	Relative density	6.11 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong acids, Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Carcinogenicity - Rat - Intramuscular
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or application.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: YW1355000

metallic taste, greenish-black discoloration of the tongue, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Vanadium	7440-62-2	2007-03-01

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Vanadium	7440-62-2	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Vanadium	7440-62-2	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Vanadium	7440-62-2	2007-03-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 04/24/2015 Print Date: 02/08/2016

SAFETY DATA SHEET

Version 3.11
Revision Date 12/01/2015
Print Date 02/18/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Vinyl chloride

Product Number : 387622
Brand : Aldrich
Index-No. : 602-023-00-7

CAS-No. : 75-01-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable gases (Category 1), H220
Gases under pressure (Liquefied gas), H280
Carcinogenicity (Category 1A), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H350 May cause cancer.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	Eliminate all ignition sources if safe to do so.
P405	Store locked up.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Chloroethylene
Formula	:	C_2H_3Cl
Molecular weight	:	62.50 g/mol
CAS-No.	:	75-01-4
EC-No.	:	200-831-0
Index-No.	:	602-023-00-7

Hazardous components

Component	Classification	Concentration
Vinyl chloride		
	Flam. Gas 1; Press. Gas Liquefied gas; Carc. 1A; SA ; H220, H280, H350,	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Clean up promptly by sweeping or vacuum.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Contents under pressure. Light sensitive.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Vinyl chloride	75-01-4	TWA	1 ppm	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Liver damage Lung cancer Confirmed human carcinogen		
		STEL	5 ppm	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		STEL	5 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		See 1910.1017		
		Potential Occupational Carcinogen See Appendix A		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 120 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Liquefied gas
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -153.8 °C (-244.8 °F) - lit.
f)	Initial boiling point and boiling range	-13.4 °C (7.9 °F) - lit.
g)	Flash point	-61.0 °C (-77.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or	Upper explosion limit: 33 %(V) Lower explosion limit: 3.6 %(V)

	explosive limits	
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.911 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.
Contains the following stabiliser(s):
Hydroquinone (>=0 - <=0.0001 %)
Phenol (>=0 - <=0.01 %)

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Chemically active metals, Copper

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

LC50 Inhalation - Rat - 0.3 h - 180000 ppm
Remarks: Behavioral:Tremor. Behavioral:Convulsions or effect on seizure threshold. Respiratory disorder

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Human carcinogen.

IARC:	1 - Group 1: Carcinogenic to humans (Vinyl chloride)
NTP:	Known to be human carcinogen (Vinyl chloride)
OSHA:	OSHA specifically regulated carcinogen (Vinyl chloride)

Reproductive toxicity
No data available

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KU9625000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -
Stomach - Irregularities - Based on Human Evidence (Phenol)
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1086 Class: 2.1
Proper shipping name: Vinyl chloride, stabilized
Reportable Quantity (RQ): 1 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1086 Class: 2.1 EMS-No: F-D, S-U
Proper shipping name: VINYL CHLORIDE, STABILIZED

IATA
UN number: 1086 Class: 2.1
Proper shipping name: Vinyl chloride, stabilized
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Phenol	108-95-2	2007-07-01
Hydroquinone	123-31-9	2007-07-01

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01
Phenol	108-95-2	2007-07-01
Hydroquinone	123-31-9	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01
Phenol	108-95-2	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

	May displace oxygen and cause rapid suffocation.
Carc.	Carcinogenicity
Flam. Gas	Flammable gases
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H350	May cause cancer.
Press. Gas	Gases under pressure
SA	Simple Asphyxiant

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	4
Physical Hazard	3

NFPA Rating

Health hazard:	2
Fire Hazard:	4
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.11 Revision Date: 12/01/2015 Print Date: 02/18/2016

SAFETY DATA SHEET

Creation Date 22-Sep-2009 **Revision Date** 25-Apr-2019 **Revision Number** 6

1. Identification

Product Name **Vinylidene chloride, stabilized**

Cat No. : **AC172290000; AC172290010; AC172290025; AC172290250**

CAS-No 75-35-4
Synonyms 1,1-Dichloroethylene

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 1
Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Nasal Cavities, Liver.	

Label Elements

Signal Word
Danger

Hazard Statements
Extremely flammable liquid and vapor
Causes serious eye irritation

Suspected of causing cancer
May cause damage to organs through prolonged or repeated exposure
Harmful if swallowed or if inhaled



Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep cool
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Toxic to aquatic life with long lasting effects
WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Vinylidene chloride	75-35-4	>95
4-Methoxyphenol	150-76-5	0.02

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects Difficulty in breathing. . Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. Water mist may be used to cool closed containers. Chemical foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media No information available

Flash Point -25 °C / -13 °F

Method - No information available

Autoignition Temperature 520 °C / 968 °F

Explosion Limits

Upper	16.5%
Lower	8.4%
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Extremely flammable. Vapors may travel to source of ignition and flash back. Vapors may form explosive mixture with air. Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2). Formaldehyde. peroxides. Hydrogen chloride gas.

Protective Equipment and Precautions for Firefighters
Vapors are heavier than air and may spread along floors. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	4	1	N/A

6. Accidental release measures

Personal Precautions Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not let this chemical enter the environment.

7. Handling and storage

Handling

Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Do not ingest. If swallowed then seek immediate medical assistance. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Do not subject to grinding/shock/friction. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Storage

Refrigerator/flammables. Keep away from heat, sparks and flame. Protect from light. May form explosive peroxides on prolonged storage. Keep under nitrogen. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Vinylidene chloride	TWA: 5 ppm	(Vacated) TWA: 1 ppm (Vacated) TWA: 4 mg/m³		TWA: 5 ppm
4-Methoxyphenol	TWA: 5 mg/m³	(Vacated) TWA: 5 mg/m³	TWA: 5 mg/m³	TWA: 5 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	aromatic
Odor Threshold	No information available
pH	7 2.5 g/l aq.sol
Melting Point/Range	-122 °C / -187.6 °F
Boiling Point/Range	31.2 - 32 °C / 88.2 - 89.6 °F @ 760 mmHg
Flash Point	-25 °C / -13 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	

Upper	16.5%
Lower	8.4%
Vapor Pressure	665 mbar @ 20 °C
Vapor Density	3.4 (Air = 1.0)
Specific Gravity	1.218
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	520 °C / 968 °F
Decomposition Temperature	No information available
Viscosity	.377 mPa.s at 15 °C
Molecular Formula	C2 H2 Cl2
Molecular Weight	96.94

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability May form explosive peroxides. Hazardous polymerization may occur upon depletion of inhibitor. Moisture sensitive. Air sensitive. Light sensitive.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Exposure to air. Exposure to light. Incompatible products. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents, Strong bases, Finely powdered metals, oxygen, Peroxides, Metals, copper, Finely powdered metals, Acids

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2), Formaldehyde, peroxides, Hydrogen chloride gas

Hazardous Polymerization Hazardous polymerization may occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50 Category 4. ATE = 300 - 2000 mg/kg.

Vapor LC50 Category 4. ATE = 10 - 20 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Vinylidene chloride	LD50 = 1500 mg/kg (Rat) LD50 = 200 mg/kg (Rat)	Not listed	LC50 = 1.66 mg/L (Rat) 4 h LC50 = 6350 ppm (Rat) 4 h
4-Methoxyphenol	1600 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation May cause skin, eye, and respiratory tract irritation

Sensitization No information available

Carcinogenicity Limited evidence of a carcinogenic effect. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Vinylidene chloride	75-35-4	Group 2B	Not listed	Not listed	X	Not listed
4-Methoxyphenol	150-76-5	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects Ames test: positive.

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure Nasal Cavities Liver

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Vinylidene chloride	Not listed	LC50: 161 - 179 mg/L, 96h static (Pimephales promelas) LC50: 57 - 91 mg/L, 96h static (Lepomis macrochirus) LC50: 85 - 117 mg/L, 96h flow-through (Pimephales promelas)	EC50 > 2000 mg/L 17 h	LC50: 62 - 110 mg/L, 48h Static (Daphnia magna) LC50: 9.0 - 14.0 mg/L, 48h Static (Daphnia magna)
4-Methoxyphenol	Not listed	LC50: = 28.5 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: = 84.3 mg/L, 96h flow-through (Pimephales promelas)	EC50 = 3.66 mg/L 5 min EC50 = 4.30 mg/L 15 min EC50 = 4.61 mg/L 30 min	Not listed

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Vinylidene chloride	2.02
4-Methoxyphenol	1.3

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Vinylidene chloride - 75-35-4	U078	-

14. Transport information

DOT

UN-No	UN1303
Proper Shipping Name	VINYLIDENE CHLORIDE, STABILIZED
Hazard Class	3
Packing Group	I

TDG

UN-No	UN1303
Proper Shipping Name	VINYLIDENE CHLORIDE, STABILIZED
Hazard Class	3
Packing Group	I

IATA

UN-No	UN1303
Proper Shipping Name	VINYLIDENE CHLORIDE, STABILIZED
Hazard Class	3
Packing Group	I

IMDG/IMO

UN-No	UN1303
Proper Shipping Name	VINYLIDENE CHLORIDE, STABILIZED
Hazard Class	3
Subsidiary Hazard Class	P
Packing Group	I

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Vinylidene chloride	75-35-4	X	ACTIVE	-
4-Methoxyphenol	150-76-5	X	ACTIVE	-

Legend:
TSCA - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Vinylidene chloride	75-35-4	X	-	200-864-0	X	X	X	X	KE-10122
4-Methoxyphenol	150-76-5	X	-	205-769-8	X	X	X	X	KE-23353

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Vinylidene chloride	75-35-4	>95	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Vinylidene chloride	X	100 lb	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Vinylidene chloride	X		-

OSHA - Occupational Safety and Health Administration: Not applicable

CERCLA: This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Vinylidene chloride	100 lb 1 lb	-

California Proposition 65: This product contains the following Proposition 65 chemicals.

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Vinylidene chloride	75-35-4	Carcinogen	0.88 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Vinylidene chloride	X	X	X	X	X
4-Methoxyphenol	X	X	X	-	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security: This product contains the following DHS chemicals:
Legend - STQs = Screening Threshold Quantities, APA = A placarded amount

Component	DHS Chemical Facility Anti-Terrorism Standard
Vinylidene chloride	Release STQs - 10000lb

Other International Regulations

Mexico - Grade: No information available

16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 22-Sep-2009
Revision Date 25-Apr-2019
Print Date 25-Apr-2019
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/28/2019 Version Number 4 Reviewed on 03/23/2019

*
1 Identification

· **Product identifier**

· **Trade name: VOC Gas Standard (1X1 mL)**

· **Part number:** DWM-544-1
· **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA

· **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
· **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

*
2 Hazard(s) identification

· **Classification of the substance or mixture**


GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.


GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.


GHS08 Health hazard

Carc. 1A H350 May cause cancer.
STOT SE 1 H370 Causes damage to organs.

· **Label elements**
· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**


GHS02 GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
methanol
vinyl chloride
bromomethane
· **Hazard statements**
Highly flammable liquid and vapor.

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Trade name: VOC Gas Standard (1X1 mL)

(Contd. of page 1)

Toxic if inhaled.
May cause cancer.
Causes damage to organs.

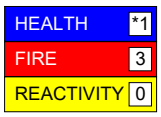
· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *1
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

*
3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
67-56-1	methanol	98.483%
74-87-3	chloromethane	0.253%
75-01-4	vinyl chloride	0.253%

(Contd. on page 3)

(Contd. of page 2)

75-00-3	chloroethane	0.253%

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
67-56-1	methanol	530 ppm

(Contd. on page 4)

(Contd. of page 3)

74-87-3	chloromethane	150 ppm
74-83-9	bromomethane	19 ppm
75-01-4	vinyl chloride	250 ppm
75-71-8	dichlorodifluoromethane	3,000 ppm
75-69-4	trichlorofluoromethane	91 ppm
75-00-3	chloroethane	300 ppm

· **PAC-2:**

67-56-1	methanol	2,100 ppm
74-87-3	chloromethane	910 ppm
74-83-9	bromomethane	210 ppm
75-01-4	vinyl chloride	1,200 ppm
75-71-8	dichlorodifluoromethane	10,000 ppm
75-69-4	trichlorofluoromethane	1,000 ppm
75-00-3	chloroethane	5100* ppm

· **PAC-3:**

67-56-1	methanol	7200* ppm
74-87-3	chloromethane	3,000 ppm
74-83-9	bromomethane	740 ppm
75-01-4	vinyl chloride	4800* ppm
75-71-8	dichlorodifluoromethane	50,000 ppm
75-69-4	trichlorofluoromethane	10,000 ppm
75-00-3	chloroethane	20000** ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Specific end use(s)** No further relevant information available.

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(Contd. of page 4)

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
67-56-1 methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
TLV	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI
74-87-3 chloromethane	
PEL	Long-term value: 100 ppm Ceiling limit value: 200; 300* ppm *5-min peak in any 3 hrs
REL	See Pocket Guide App. A
TLV	Short-term value: 207 mg/m³, 100 ppm Long-term value: 103 mg/m³, 50 ppm Skin
75-01-4 vinyl chloride	
PEL	Short-term value: 5* ppm Long-term value: 1 ppm *Avg. not exceeding any 15 min; see 29CFR1910.1017
REL	See Pocket Guide App.A
TLV	Long-term value: 2.6 mg/m³, 1 ppm
75-00-3 chloroethane	
PEL	Long-term value: 2600 mg/m³, 1000 ppm
REL	Handle with caution; See Pocket Guide App. C
TLV	Long-term value: 264 mg/m³, 100 ppm Skin

· **Ingredients with biological limit values:**	
67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

(Contd. on page 6)

(Contd. of page 5)

Store protective clothing separately.

· **Breathing equipment:**
When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· **Protection of hands:**
Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· **Material of gloves**
For normal use: nitrile rubber, 11-13 mil thickness
For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· **Penetration time of glove material**
For normal use: nitrile rubber: 1 hour
For direct contact with the chemical: butyl rubber: >4 hours

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Color:	Colorless
· **Odor:**	Alcohol-like
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	64.7 °C (148.5 °F)
· **Flash point:**	9 °C (48.2 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	455 °C (851 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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· **Explosion limits:**	
Lower:	5.5 Vol %
Upper:	44 Vol %
· **Vapor pressure at 20 °C (68 °F):**	100 hPa (75 mm Hg)
· **Density at 20 °C (68 °F):**	0.80692 g/cm³ (6.73375 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	98.7 %
VOC content:	98.48 % 794.7 g/l / 6.63 lb/gal
Solids content:	0.0 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
ATE (Acute Toxicity Estimate)		
Oral	LD50	84,652 mg/kg (rat)
Inhalative	LC50/4 h	3.05 mg/L

67-56-1 methanol		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

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74-87-3 chloromethane		
Oral	LD50	1,800 mg/kg (rat)
Inhalative	LC50/4 h	>21,800 mg/L (rat)
74-83-9 bromomethane		
Oral	LD50	214 mg/kg (rat)
Inhalative	LC50/4 h	302 mg/L (rat)
75-01-4 vinyl chloride		
Oral	LD50	500 mg/kg (rat)
75-69-4 trichlorofluoromethane		
Oral	LD50	>15,000 mg/kg (rat)
75-00-3 chloroethane		
Inhalative	LC50/4 h	>19,000 mg/L (rat)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
74-87-3	chloromethane	3
74-83-9	bromomethane	3
75-01-4	vinyl chloride	1
75-00-3	chloroethane	3

· **NTP (National Toxicology Program)**		
75-01-4	vinyl chloride	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
75-01-4	vinyl chloride

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

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(Contd. of page 8)

· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

*
14 Transport information

· **Not Regulated, De minimus Quantities**	-
· **UN-Number**	
· **DOT, IMDG, IATA**	UN1230
· **UN proper shipping name**	
· **DOT**	Methanol
· **IMDG, IATA**	METHANOL
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	3 Flammable liquids
· **Label**	3, 6.1
· **IMDG**	
· **Class**	3 Flammable liquids
· **Label**	3/6.1
· **IATA**	
· **Class**	3 Flammable liquids
· **Label**	3 (6.1)
· **Packing group**	
· **DOT, IMDG, IATA**	II

(Contd. on page 10)

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· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Flammable liquids
· **Danger code (Kemler):**	336
· **EMS Number:**	F-E,S-D
· **Stowage Category**	B
· **Stowage Code**	SW2 Clear of living quarters.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1230 METHANOL, 3 (6.1), II

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**	
74-83-9	bromomethane

· **Section 313 (Specific toxic chemical listings):**
All ingredients are listed.

· **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**	
75-01-4	vinyl chloride
75-00-3	chloroethane

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**	
74-87-3	chloromethane

· **Chemicals known to cause developmental toxicity:**	
67-56-1	methanol
74-87-3	chloromethane
74-83-9	bromomethane

(Contd. on page 11)

(Contd. of page 10)

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**		
74-87-3	chloromethane	D, CBD
74-83-9	bromomethane	D
75-01-4	vinyl chloride	A, K/L

· **TLV (Threshold Limit Value established by ACGIH)**		
74-87-3	chloromethane	A4
74-83-9	bromomethane	A4
75-01-4	vinyl chloride	A1
75-71-8	dichlorodifluoromethane	A4
75-69-4	trichlorofluoromethane	A4
75-00-3	chloroethane	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
74-87-3	chloromethane
74-83-9	bromomethane
75-01-4	vinyl chloride

· **National regulations:**
· **Additional classification according to Decree on Hazardous Materials:**
Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation.
No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· **Department issuing SDS:** Document Control / Regulatory
· **Contact:** regulatory@ultrasci.com
· **Date of preparation / last revision** 03/28/2019 / 3
· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety

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Trade name: VOC Gas Standard (1X1 mL)

(Contd. of page 11)

OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Carc. 1A: Carcinogenicity – Category 1A
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

· *** Data compared to the previous version altered.**

SAFETY DATA SHEET

Version 4.9
Revision Date 08/24/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Zinc

Product Number : 324930
Brand : Aldrich
Index-No. : 030-001-00-1

CAS-No. : 7440-66-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Self-heating substances and mixtures (Category 1), H251
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)
H251 Self-heating: may catch fire.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P223 Do not allow contact with water.
P231 + P232 Handle under inert gas. Protect from moisture.
P235 + P410 Keep cool. Protect from sunlight.
P273 Avoid release to the environment.

P280	Wear protective gloves/ eye protection/ face protection.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P402 + P404	Store in a dry place. Store in a closed container.
P407	Maintain air gap between stacks/ pallets.
P413	Store bulk masses greater than .? kg/ .? lbs at temperatures not exceeding .? °C/ .? °F.
P420	Store away from other materials.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Combustible dust

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Zn
Molecular weight	:	65.39 g/mol
CAS-No.	:	7440-66-6
EC-No.	:	231-175-3
Index-No.	:	030-001-00-1

Hazardous components

Component	Classification	Concentration
Zinc powder (pyrophoric)		
	Self-heat. 1; Water-react. 1; Aquatic Acute 1; Aquatic Chronic 1; H251, H260, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
Zinc/zinc oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Keep in a dry place.
Storage class (TRGS 510): Pyrophoric and self-heating hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Protective gloves against thermal risks

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 420 °C (788 °F) - lit.
f)	Initial boiling point and boiling range	907 °C (1,665 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	May form combustible dust concentrations in air
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	1 hPa (1 mmHg) at 487 °C (909 °F)

l)	Vapour density	No data available
m)	Relative density	7.133 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5
p)	Auto-ignition temperature	The substance or mixture is classified as self heating with the category 1.
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
Strong acids and oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: ZG8600000

chills, dry throat, sweet taste, Fever, Cough, Nausea, Vomiting, Weakness
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 450.0 µg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 0.068 mg/l - 48 h
	mortality NOEC - Daphnia (water flea) - 0.101 - 0.14 mg/l - 7 d

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation	Algae - 7 d at 16 °C - 5 µg/l
	Bioconcentration factor (BCF): 466

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1436 Class: 4.3 (4.2) Packing group: II
Proper shipping name: Zinc powder
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1436 Class: 4.3 (4.2) Packing group: II EMS-No: F-G, S-O
Proper shipping name: ZINC POWDER
Marine pollutant:yes

IATA
UN number: 1436 Class: 4.3 (4.2) Packing group: II
Proper shipping name: Zinc powder

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

SARA 311/312 Hazards
Reactivity Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H251	Self-heating: may catch fire.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Self-heat.	Self-heating substances and mixtures

HMIS Rating
Health hazard: 0

Chronic Health Hazard:	
Flammability:	3
Physical Hazard	1

NFPA Rating

Health hazard:	0
Fire Hazard:	3
Reactivity Hazard:	1
Special hazard.I:	W

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.9 Revision Date: 08/24/2015 Print Date: 02/07/2016

ATTACHMENT F

JOBSITE SAFETY INSPECTION CHECKLIST

Jobsite Safety Inspection Checklist

Date: _____ **Inspected By:** _____

Location: _____ **Project #:** _____

Check one of the following: **A:** Acceptable **NA**: Not Applicable **D**: Deficiency

	A	NA	D	Remark
1. HASP available onsite for inspection?				
2. Health & Safety Compliance agreement (in HASP) appropriately signed by Langan employees and contractors?				
3. Hospital route map with directions posted on site?				
4. Emergency Notification List posted on site?				
5. First Aid kit available and properly stocked?				
6. Personnel trained in CPR/First Aid on site?				
7. MSDSs readily available, and all workers knowledgeable about the specific chemicals and compounds to which they may be exposed?				
8 Appropriate PPE being worn by Langan employees and contractors?				
9. Project site safe practices ("Standing Orders") posted?				
10. Project staff have 40-hr./8-hr./Supervisor HAZWOPER training?				
11. Project staff medically cleared to work in hazardous waste sites and fit-tested to wear respirators, if needed?				
12. Respiratory protection readily available?				
13. Health & Safety Incident Report forms available?				
14. Air monitoring instruments calibrated daily, and results recorded on the Daily Instrument Calibration check sheet?				
15. Air monitoring readings recorded on the air monitoring data sheet/field logbook?				
16. Subcontract workers have received 40-hr./8-hr./Spvsr. HAZWOPER training, as appropriate?				
17. Subcontract workers medically cleared to work on site, and fit-tested for respirator wear?				
18. Subcontract workers have respirators readily available?				
19. Mark outs of underground utilities done prior to initiating any subsurface activities?				

20. Decontamination procedures being followed as outlined in HASP?				
21. Are tools in good condition and properly used?				
22. Drilling performed in areas free from underground objects including utilities?				
23. Adequate size/type fire extinguisher supplied?				
24. Equipment at least 20 feet from overhead powerlines?				
25. Evidence that drilling operator is responsible for the safety of his rig.				
26. Trench sides shored, layer back, or boxed?				
27. Underground utilities located, and authorities contacted before digging?				
28. Ladders in trench (25-foot spacing)?				
29. Excavated material placed more than 2 feet away from excavation edge?				
30. Public protected from exposure to open excavation?				
31. People entering the excavation regarding it as a permit-required confined space and following appropriate procedures?				
32. Confined space entry permit is completed and posted?				
33. All persons knowledgeable about the conditions and characteristics of the confined space?				
34. All persons engaged in confined space operations have been trained in safe entry and rescue (non-entry)?				
35. Full body harnesses, lifelines, and hoisting apparatus available for rescue needs?				
36. Attendant and/or supervisor certified in basic first aid and CPR?				
37. Confined space atmosphere checked before entry and continuously while the work is going on?				
38. Results of confined space atmosphere testing recorded?				
39. Evidence of coordination with off-site rescue services to perform entry rescue, if needed?				
40. Are extension cords rated for this work being used and are they properly maintained?				
41. Are GFCIs provided and being used?				

Unsafe Acts: _____

_____

_____

_____

Notes: _____

_____

_____

_____

ATTACHMENT G

JOB SAFETY ANALYSIS FORM

LANGAN	**Job Safety Analysis (JSA)** **Construction Health and Safety**
JSA TITLE: **JSA NUMBER:**	**DATE CREATED:** **CREATED BY**: **REVISION DATE:** **REVISED BY:**
Langan employees must review and revise the Job Safety Analysis (JSA) as needed to address the any site-specific hazards not identified. Employees must provide their signatures on the last page of the JSA indicating they have review the JSA and are aware the potential hazards associated with this work and will follow the provided preventive or corrective measures.	

PERSONAL PROTECTIVE EQUIPMENT REQUIRED: (PPE): ■ Required ☒ As Needed		
☐ Steel-toed boots	☐ Nitrile gloves	☐ Dermal Protection (Specify)
☐ Long-sleeved shirt	☐ Leather/ Cut-resistant gloves	☐ High visibility vest/clothing
☐ Safety glasses	☐ Face Shield	☐ Hard hat
ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT NEEDED (Provide specific type(s) or descriptions)		
☐ Air Monitoring:	☐ Respirators:	☐ Other:
☐ Dermal Protection:	☐ Cartridges:	☐ Other:

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE OR CORRECTIVE ACTION
1.	1. 2.	1a. 1b. 2a. 2b.
2.	1.	1
Additional items identified in the field.		
Additional Items.		

If additional items are identified during daily work activities, please notify all relevant personnel about the change and document on this JSA.

LANGAN	**Job Safety Analysis (JSA)** **Construction Health and Safety**
JSA Title: COVID-19 Awareness – Site Work **JSA Number: JSA046-00**	
A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.	

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Boots	☐ Long Sleeves	☐ Safety Vest (Class 2)	☐ Hard Hat	☐ Hearing Protection
☐ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Alcohol-based hand sanitizer, disinfectant wipes/spray				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
1. All Activities	1. Transmittal/exposure of COVID-19	1. Ask yourself and your managers – is this work essential? Can this be done remotely? 2. Stay home if sick or showing symptoms of COVID-19 (e.g., fever, cough, etc.). 3. Carry nitrile gloves, alcohol-based hand sanitizer, face coverings and disinfectant wipes/spray during field work. 4. Check federal, state, and/or local travel restrictions **prior** to travel. Many states, counties, and cities are passing strict "shelter-in-place" or business restrictions in response to COVID-19. 5. Immediately notify Beverly Williams or Rory Johnston (Supervisor if employee chooses) if you display symptoms of COVID-19. Symptoms include fever (over 100.4 F), cough, and shortness of breath. 6. Notify Beverly Williams or Rory Johnston, Supervisor and Coronavirus Task Force if you had close contact with an individual who tested positive or displayed symptoms of COVID-19. 7. Do not touch your face, to the extent possible. 8. Wear face coverings when around other worker to minimize spread of COVID-19. (May be required in certain states or locations.)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		9. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. Avoid gatherings of more than 10 people. Limit, to the extent possible, contact with public items/objects. 10. Clean your hands frequently with soap and water for at least 20 seconds especially after you have been in a public place, or after blowing your nose, coughing, sneezing, or using the rest room. 11. If soap and water are not readily available, use a hand sanitizer that contains at least 60% alcohol. Cover all surfaces of your hands and rub them together until they feel dry. 12. Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. 13. Clean and disinfect frequently touched surfaces daily, for example, cell phones, computer equipment, headsets, tables, doorknobs, light switches, countertops, handles, desks, toilets, faucets, and sinks.
2. Travel to Jobsite	1. Transmittal/exposure of COVID-19 between passengers 2. Transmittal/exposure of COVID-19 from previous occupants (rental and fleet vehicles) 3. Transmittal/exposure of COVID-19 while refueling	1. Limit the number of occupants to each vehicle to 2 people. Employees should sit as far away from each other as possible. 2. Disinfect high “hand-traffic” areas of the vehicle: Door handles, steering wheel, turn signal and control rods, dashboard controls, seatbelts, armrests, etc. To the extent possible, do not use recycled air for heat/AC and travel with the windows open. 3. Use hand sanitizer before and after pumping gas and only return to the inside of the vehicle after refueling is complete. 4. Wear nitrile gloves if available or disinfect the keypad, pump handle, and fuel grade button prior to use. 5. Recommend face coverings are worn to minimize spread of COVID-19.
3. Conduct Tailgate Safety Meeting & Complete H&S Paperwork	1. Transmittal/exposure of COVID-19 between meeting participants	1. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. 2. Recommend face coverings are worn when around other workers to minimize spread of COVID-19, 3. Hold meetings outside and keep in mind wind direction. To the extent possible, remain crosswind from other people. 4. Designate a single person to maintain sign-in sheets/permits throughout the day to limit the passing of pens/clipboards between people. 5. Each person should complete their own JSA, even if they are completing similar tasks as others in order to limit the passing of paper/pens/clipboards between people. 6. Include COVID-19 topics and prevention measures in safety meetings.
4. Conduct Site Work	1. Transmittal/exposure of COVID-19 between site workers and public.	1. Practice social distancing maintaining 6 feet of distance between yourself and others. 2. Recommend face coverings are worn when around other workers to minimize spread of COVID-19, 3. To the extent possible, do not interact with the public. If it is necessary, politely explain you are practicing social distance and request they stay at least 6 feet away and they do not attempt to pass objects to you. 4. Wear nitrile gloves during site work underneath the appropriate gloves for your task. Utilize appropriate decontamination procedures, securely bag all waste (including nitrile gloves) generated during site work and dispose of.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Do not share tools. Each person should be equipped with the tools to complete their task or tasks should be divided to remove the need to share tools. If tools must be shared, surfaces should be disinfected. 6. Clean and disinfect surfaces of rental tools and equipment upon receipt. To the extent possible rent equipment from Langan's internal equipment reservation center, where cleaning/disinfecting procedures can be verified.
5. Use of Construction Trailers	1. Transmittal/exposure of COVID-19 between site workers and others.	1. Avoid use of shared trailers, if possible. Minimize trailer use to essential personnel. 2. Practice social distancing; maintaining 6 feet of distance between yourself and others in trailer. 3. Clean and disinfect areas including desks, phones, chairs, and other common areas, before and after use.
6. Purchasing Food from a Restaurant	1. Transmittal/exposure of COVID-19 from other customers, staff, surfaces.	1. To the extent possible, bring your own food. 2. If you must visit a restaurant, call ahead for take-out or "contactless delivery." Do not dine in. When picking up food, follow guidelines for Job Step #8: Purchasing Supplies at Retail/Shipping Centers. 3. Wash hands before and after eating.
7. Smoking Cigarettes	1. Transmittal/exposure of COVID-19 by touching mouth with hands	1. Cigarette smokers are at greater risk of complications arising from COVID-19. Nicotine patches/lozenges/gum, smoking cessation programs, and prescription medications may aid in "kicking the habit" if you decide to quit. 2. Wash hands thoroughly before and after smoking. 3. Discard cigarette butts properly. Do not light cigarettes from others and do not give cigarettes to others.
8. Hotel Stay	1. Transmittal/exposure of COVID-19 from previous occupants, hotel staff, common areas.	1. Verify the hotel chain/brand has modified cleaning procedures to reflect risk of COVID-19. Most hotel companies have issued statements on their websites and in email blasts reflecting these new procedures. 2. Use the front door, and not peripheral entrances. Front doors of hotels are usually automatic. 3. Request ground floor room to avoid elevator use and a room that has not be utilized in 48-72 hours. 4. If elevator use is required, do not directly touch elevator buttons with your hands. Do not ride elevators with other people, to the extent possible. 5. Bring disinfecting wipes or sanitizing spray. Upon arrival, disinfect high "hand-traffic" areas of the hotel room: Door handles, light switches, shower/sink faucet handles, TV remote, curtain/blind handles. Clean these surfaces daily. 6. Place the "Do Not Disturb" Sign on your door to prevent people (housekeeping) from entering your room. 7. Avoid common spaces and hotel sponsored events where crowds will be present. 8. Confirm hotel cleaning procedures have been modified to address COVID-19. Confirm no COVID-19 cases have occurred in hotel
9. Purchasing Supplies at Retail/Shipping Centers	1. Transmittal/exposure of COVID-19 from other customers, staff, surfaces.	1. Plan your travel to limit the need to visit retail/shipping centers. 2. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. If the store is too crowded/small, consider visiting another store or returning at a different time. 3. Avoid high "hand-traffic" items/areas like door handles (i.e. use your shoulder, hip/butt, or open with a disposable napkin/paper towel), credit cards terminals (i.e. use Apple/Android pay if available), shopping carts/baskets (i.e. bring your own shopping

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		bags), counter tops (i.e. ask clerk if you can hold the items while they are scanned) and bulk/buffet items (i.e. just avoid them). 4. Disinfect your hands before and after visiting a retail/shipping center.

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN	Job Safety Analysis (JSA) Construction Health and Safety
JSA Title: Environmental Sampling **JSA Number:** JSA021-01 **A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.**	 **S** – ***Stop,*** *what has changed?* **T** – ***Think*** *about the task* **E** – ***Evaluate*** *potential hazards* **P** – ***Plan*** *safe approach* **S** - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☒ Fire Resistant Clothing	☐ Rubber Boots
☒ Insect/Animal Repellent	☒ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
1. Drive to sample location	1. Rough/Off Road terrain	1. Pay attention to road conditions such as road erosion, unprotected embankments, and soft road conditions.
2. Sample Collection (Walking)	1. Slip/Trips/Falls 2. Back strains 3. Wildlife (Insects, Stray animals, rodents) 4. Poisonous vegetation	1. Minimize distance to sample area/ Plan route and check surface prior to carrying heavy equipment/ Locate safest access point/ Follow good housekeeping procedures/ Mark significant below grade hazards (holes, trenches) with spray paint or cones/ Wear foot protection with ankle support and gripping soles. 2. Use proper lifting techniques/ Use wheeled transport/ Obtain assistance where and when needed/ Consider load weight when evaluating what is safe and unsafe to carry. 3. Be aware of surroundings for the presence of wildlife. Do not approach stray animals. Carry and use animal repellant when needed/ Use bug spray when needed. 4. Keep skin covered/ Identify and avoid poisonous vegetation/ Clean areas after contact with suspected vegetation.
3. Sample Collection (Water)	1. Drowning Hazards 2. Chemical burns (when adding acid preservative to sample) 3. Back Strains 4. Ergonomic issues 5. Slip/Trips/Falls	1. Use buddy system/ Wear flotation vest if water is deeper than 2 feet or swift moving/ Select working area with stable footing. Do not attempt to cross or stand in swift moving water. 2. Wear proper PPE (Nitrile gloves, Tyvek Sleeves) 3. Use proper lifting techniques/ Use wheeled transport/ Obtain assistance where and when needed/ Consider load weight when evaluating what is safe or unsafe to carry. 4. When possible, avoid bending over for long periods of time/ Use a small stool for sitting or knee pad for kneeling.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Minimize distance to sample area/ Plan route and check surface prior to carrying heavy equipment/ Locate safest access point/ Follow good housekeeping procedures/ Mark significant below grade hazards (holes, trenches) with spray paint or cones/ Wear foot protection with ankle support and gripping soles/ Avoid standing water or slippery terrain.
4. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Subsurface Investigation**
JSA Number: **JSA030-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.



S – *Stop,* what has changed?
T – *Think* about the task
E – *Evaluate* potential hazards
P – *Plan* safe approach
S - *Start* task / *Stop* & regroup

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Dielectric Overshoes, Sun Block				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
5. Transport equipment to work area	2. Back/strain 3. Slip/Trip/Falls 4. Traffic 5. Cuts/abrasions/contusions from equipment 6. Accidents due to vehicle operations	1. Use proper lifting techniques/Use wheeled transport 2. Minimize distance to work area/unobstructed path to work area/follow good housekeeping procedures 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes) 5. Observe posted speed limits/ Wear seat belts at all times
6. Traffic	1. Hit by moving vehicle	1. Use traffic cones and signage/ Use High visibility traffic vests and clothing/ Caution tape when working near active roadways.
7. Field Work (drilling, resistivity testing, and inspection)	1. Biological Hazards: insects, rats, snakes, poisonous plants, and other animals 2. Heat stress/injuries 3. Cold Stress/injuries 4. High Energy Transmission Lines 5. Underground Utilities 6. Electrical (soil resistivity testing)	1. Inspect work area to identify biological hazards. Wear light colored long sleeve shirt and long pants/ Use insect repellant as necessary/ Beware of tall grass, bushes, woods, and other areas where ticks may live/ Avoid leaving garbage on site to prevent attracting animals/ Identify and avoid contact with poisonous plants/Beware of rats, snakes, or stray animals. 2. Wear proper clothing (light colored)/ drink plenty of water/ take regular breaks/use sun block. 3. Wear proper clothing/ dress in layers/ take regular breaks. 4. Avoid direct contact with high energy transmission lines/ position equipment at least 15 feet or as required by PSE&G from the transmission lines/ wear proper PPE (dielectric overshoes 15 kV minimum rating).

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Call one-call service before performing intrusive field work/ Review utility mark-outs and available utility drawings (with respect to proposed work locations)/ Follow Underground Utility Guidelines 6. See AGI Sting R1 operating manual for specific concerns during operating instrument
8. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	7. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 8. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 9. Wear Langan approved safety shoes. 10. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 11. Wear high visibility clothing & vest / Use cones or signs to designate work area. 12. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 13. Wear proper hearing protection. 14. Wear hard hat / Avoid areas where overhead hazards exist. 15. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 16. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN	Job Safety Analysis (JSA) Construction Health and Safety
JSA Title: Field Sampling **JSA Number:** JSA022-01 **A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.**	 S – *Stop,* what has changed? T – *Think* about the task E – *Evaluate* potential hazards P – *Plan* safe approach S - *Start* task / *Stop* & regroup

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☐ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
9. Unpack/Transport equipment to work area.	7. Back Strains 8. Slip/Trips/Falls 9. Cuts/Abrasions from equipment 10. Contusions from dropped equipment	6. Use proper lifting techniques/Use wheeled transport. 7. Minimize distance to work area/Unobstructed path to work area/follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones. 8. Wear proper PPE (leather gloves, long sleeves). 9. Wear proper PPE (Langan approved safety shoes).
10. Initial Site Arrival-Site Assessment	5. Traffic	5. Situational awareness (be alert of your surroundings). Secure area from through traffic.
11. Surface Water Sampling	6. Contaminated media. Skin/eye contact with biological agents and/or chemicals.	6. Wear appropriate PPE (Safety glasses, appropriate gloves). Review (M)SDS for all chemicals being.
12. Sampling from bridges	1. Struck by vehicles	1. Wear appropriate PPE (Safety Vest). Use buddy system and orange safety cones.
13. Icing of Samples/ Transporting coolers/equipment from work area.	11. Back Strains 12. Slips/Trips/Falls 13. Cuts/Abrasions from equipment 14. Pinch/Crushing Hazards.	17. Drain coolers of water. Use proper lifting techniques. Use wheeled transport. 18. Have unobstructed path from work area. Aware of surroundings. 19. Wear proper PPE (Leather gloves, long sleeves) 20. Wear proper PPE (Leather gloves, long sleeves)
14. Site Departure	1. Contaminated PPE/Vehicle	1. Contaminated PPE should be disposed of on-site. Remove boots and soiled clothing for secure storage in trunk. Wash hands promptly.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
15. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 15. Traffic 16. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 17. High Noise levels 18. Overhead hazards 19. Heat Stress/ Cold Stress 20. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 21. Wear high visibility clothing & vest / Use cones or signs to designate work area. 22. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 23. Wear hearing protection 24. Wear hard hat / Avoid areas where overhead hazards exist. 25. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 26. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

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Prepared by:		
Reviewed by:		

LANGAN	Job Safety Analysis (JSA) Construction Health and Safety
JSA Title: Equipment Transportation and Set-up **JSA Number:** JSA012-01	 **S** – ***Stop,*** *what has changed?* **T** – ***Think*** *about the task* **E** – ***Evaluate*** *potential hazards* **P** – ***Plan*** *safe approach* **S** - ***Start*** *task /* ***Stop*** *& regroup*
A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.	

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
16. Transport equipment to work area	11. Back Strain 12. Slips/ Trips/ Falls 13. Traffic 14. Cuts/abrasions from equipment 15. Contusions from dropped equipment	1. Use proper lifting techniques / Use wheeled transport. 2. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves) 5. Wear proper PPE (safety shoes)
17. Moving equipment to its planned location	6. Pinch Hazard 7. Slips/ Trips/ Falls	1. Wear proper PPE (leather gloves) 2. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e., holes, trenches) with safety cones or spray paint
18. Equipment Set-up	7. Pinch Hazard 8. Cuts/abrasions to knuckles/hands. 9. Back Strain	1. Wear proper PPE (leather gloves) 2. Wear proper PPE (leather gloves) 3. Use proper lifting techniques / Use wheeled transport
19. All activities	21. Slips/ Trips/ Falls 22. Hand injuries, cuts, or lacerations during manual handling of materials 23. Foot injuries 24. Back injuries 25. Traffic 26. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.)	27. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 28. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 29. Wear Langan approved safety shoes.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
4. All activities (cont'd)	27. High Noise levels 28. Overhead hazards 29. Heat Stress/ Cold Stress 30. Eye Injuries	30. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 31. Wear high visibility clothing & vest / Use cones or signs to designate work area. 32. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 33. Wear hearing protection 34. Wear hard hat / Avoid areas where overhead hazards exist. 35. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 36. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN	Job Safety Analysis (JSA) Construction Health and Safety
JSA Title: 55-gallon Drum Sampling **JSA Number:** JSA043-01	 **S** – ***Stop,*** *what has changed?* **T** – ***Think*** *about the task* **E** – ***Evaluate*** *potential hazards* **P** – ***Plan*** *safe approach* **S** - ***Start*** *task /* ***Stop*** *& regroup*
A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.	

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☒ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: All Drums are required to be labeled. Langan employees do not open or move undocumented drums or unlabeled drums without proper project manager authorization.				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
20. Unpack/Transport equipment to work area.	16. Back Strains 17. Slip/Trips/Falls 18. Cuts/Abrasions from equipment 4. Contusions from dropped equipment	10. Use proper lifting techniques/Use wheeled transport. 11. Minimize distance to work area/Unobstructed path to work area/follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones. 12. Wear proper PPE (leather gloves, long sleeves). 4. Wear proper PPE (Langan approved safety shoes).
21. Open Drums	1. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid. 2. Pressure from drums.	1. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches. 2. Open drum slowly to relieve pressure. Wear proper PPE: face shield and goggles; correct gloves; and over garments.
22. Collecting Soil/Fluid Sample	8. Irritation to eye from vapor, soil dust, or splashing. 9. Irritation to exposed skin	6. Wear proper eye protection including safety glasses/ face shield/googles and when necessary, splash guard. If dust or vapor phase is present, wear appropriate safety breathing gear (1/2 mask or full face mask with correct filter) 7. Wear proper skin protection including nitrile gloves.
23. Closing Drums	1. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid.	7. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
24. Moving Drums	2. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid. 3. Back Strains	2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches. 3. Use proper lifting techniques/Use wheeled transport.
25. All activities	31. Slips/ Trips/ Falls 32. Hand injuries, cuts, or lacerations during manual handling of materials 33. Foot injuries 34. Back injuries 35. Traffic 36. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 37. High Noise levels 38. Overhead hazards 39. Heat Stress/ Cold Stress 40. Eye Injuries	37. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 38. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 39. Wear Langan approved safety shoes. 40. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 41. Wear high visibility clothing & vest / Use cones or signs to designate work area. 42. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 43. Wear hearing protection 44. Wear hard hat / Avoid areas where overhead hazards exist. 45. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 46. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: Direct-Push Soil Borings
JSA Number: JSA004-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.



S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Half-face respirator, dust cartridges, PID (if applicable)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
26. Move equipment to work site	19. Back strain when lifting equipment. 20. Slips/ Trips/ Falls while moving equipment. 21. Traffic (if applicable) 22. Pinched fingers or running over toes during GeoProbe set-up. 23. Overturn drilling rig while transporting to loading dock on flat-bed tow truck	13. Use proper lifting technique (use legs for bending and lifting and not the back)/ Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle 14. Use proper lifting technique (use legs for bending and lifting and not the back) / Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle / Have unobstructed path to vehicle or collection point / Do not lift/walk with boxes that are heavy/difficult to lift 15. Wear high visibility safety vests or clothing / Exercise caution 16. Wear proper PPE (cut-resistant gloves) / Stay alert, be aware of geoprobe rig at all times 17. Drill rig should be parked in center of flat-bed tow truck / Emergency brake shall be used at all times during transport on the flat-bed truck/ All unnecessary personnel should stay away from the flat-bed truck during moving activities
27. Calibration of monitoring equipment	10. Skin or eye contact with calibration chemicals 11. Pinch fingers in monitoring equipment	8. Wear proper PPE (safety glasses/ goggles) 9. Wear proper PPE (leather gloves)
28. Set-up GeoProbe rig	10. Geoprobe rig movement	8. All field personnel should stay clear of the GeoProbe rig while moving / Use a spotter when backing up the GeoProbe
29. Advance GeoProbe rods below ground surface to desired depth	4. Underground utilities 5. High noise levels	4. Clean all subsurface soil borings to a minimum of 5 feet below grade. 5. Wear proper PPE (hearing protection)
30. Remove and open acetate liner.	41. Pinched fingers while removing macrocore.	1. Wear proper PPE (nitrile gloves, cut-resistant or leather gloves 2. Wear proper PPE (cut-resistant or leather gloves)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
5. Remove and open acetate liner (cont'd)	42. Cuts/lacerations when cutting acetate liner open. 43. Exposure to hazardous vapors 44. Skin contacts with contaminated soil	3. Do not place face over acetate liner when opening / Monitor hazardous vapors in air with PID / Upgrade PPE as necessary based on levels contained in the Construction Health and Safety Plan 4. Wear proper PPE (nitrile gloves)
31. Sample Collections a) Monitor parameters. b) Prepare sample containers and labels	1. Contact with potentially contaminated soil. 2. Lacerations from broken sample bottles 3. Back strain while transporting full coolers. 4. Internal exposure to contaminants and metals through inhalation of dust 5. Slips/ Trips/ Falls	1. Use monitoring devices / Wear proper PPE (safety glasses, nitrile gloves) 2. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage. 6. Use proper lifting techniques / Do not lift heavy loads without assistance. 7. Avoid creating dust / If necessary, wear a half mask respirator with applicable dust cartridge / Inspect respirator for damage and cleanliness prior to use / Clean respirator after each use and store in a clean, secure location. 8. Be alert / Follow good housekeeping procedures
32. Remove excess soil from acetate liner and place in 55-gallon drum (IF NOT PERFORMED BY LANGAN, REMOVE!)	1. Cuts/lacerations from acetate liner 2. Pinched fingers/hand while opening/closing drum. 3. Skin contacts with contaminated soil 4. Soil debris in eyes	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Wear proper PPE (nitrile gloves) 4. Wear proper PPE (safety glasses)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
8. Transport drums to central staging location (IF NOT PERFORMED BY LANGAN, REMOVE!)	1. Back, arm or shoulder strain from moving drums. 2. Pinch fingers/hand in drum cart when moving drums. 3. Pinch fingers/hand when operating lift-gate on vehicle. 4. Contact with potentially contaminated groundwater when moving improperly sealed drums. 5. Slips when moving drums. 6. Drop drum on feet/toes	47. Use drum cart for moving drums / Use proper lifting techniques / Do not lift heavy loads without assistance. 48. Wear proper PPE (cut-resistant or leather gloves) 49. Wear proper PPE (cut-resistant or leather gloves) 50. Wear proper PPE (nitrile gloves underneath work gloves) 51. Follow good housekeeping procedures / Ensure route to move drum and storage space is free from obstructions. 52. Wear proper PPE (safety shoes) / Work in a safe manner to prevent dropped drum
9. All activities 9. All activities (cont'd)	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 3. Wear Langan approved safety shoes. 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 5. Wear high visibility clothing & vest / Use cones or signs to designate work area. 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date

Prepared by:		
Reviewed by:		

LANGAN	Job Safety Analysis (JSA) Construction Health and Safety
JSA Title: Geophysical Investigation **JSA Number:** JSA023-01 **A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.**	 **S** – ***Stop,*** *what has changed?* **T** – ***Think*** *about the task* **E** – ***Evaluate*** *potential hazards* **P** – ***Plan*** *safe approach* **S** - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
33. Transport equipment to work area	24. Back/strain 25. Slip/Trip/Falls 26. Traffic 27. Cuts/abrasions/contusions from equipment	18. Use proper lifting techniques/Use wheeled transport 19. Minimize distance to work area/unobstructed path to work area/follow good housekeeping procedures 20. Wear proper PPE (high visibility vest or clothing) 21. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes)
34. Supervision of subcontractor and all other activities	12. Slip/Trips/Falls 13. Hand injuries 14. Foot injuries 15. Back injuries/Strains 16. Traffic 17. Wildlife a. Wildlife b. Mice/rats c. Vectors (i.e., mosquitoes, bees, etc.) 7. Heat/Cold Stress	10. Be aware of potential trip hazards/follow good housekeeping procedures/mark significant below-grade hazards (i.e., holes, trenches, wires, ropes) with safety cones or spray paint. 11. Wear proper PPE (leather gloves)/watch wear you place your hands/inspect material or equipment for jagged, rough, or slippery surfaces/ watch for pinch points/ wipe off slippery, wet, or dirty items prior to handling. 12. Wear proper PPE (Langan approved safety shoes)/ Be aware of uneven terrain) 13. Use proper lifting techniques/ Buddy system when lifting/ use wheeled transport. 14. Wear proper PPE (high-visibility shirts and vests)/ use cones if appropriate/ notify equipment operators of work area. 15. Be aware of surroundings at all times for the presence of wildlife. a. Do not approach stray animals. b. Carry animal repellant/ use if situation arises. c. Use bug spray when needed. 7. Wear proper attire for weather conditions (sunscreen, protective clothing in

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		sunlight or layer clothing in cold weather)/ drink plenty of fluids/ take regular breaks.
35. All activities	45. Slips/ Trips/ Falls 46. Hand injuries, cuts, or lacerations during manual handling of materials 47. Foot injuries 48. Back injuries 49. Traffic 50. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 51. High Noise levels 52. Overhead hazards 53. Heat Stress/ Cold Stress 54. Eye Injuries	53. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 54. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 55. Wear Langan approved safety shoes. 56. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 57. Wear high visibility clothing & vest / Use cones or signs to designate work area. 58. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 59. Wear proper hearing protection. 60. Wear hard hat / Avoid areas where overhead hazards exist. 61. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 62. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Ladder Use**
JSA Number: **JSA056**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.



S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☐ Long Sleeves	☐ Safety Vest (Class 2)	☐ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☒ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
36. Use of Ladders and Inspection of Ladders Before Use	1. Ladders (portable, fixed) 2. Rolling or pinching objects 3. Sharp objects	22. Inspect all ladders for structural defects prior to each use. Decals, weight restrictions, non painted surfaces. 23. Use the correct type and size of ladder to safely work. 24. . Do not use metal or wooden ladders
37. Use of Ladder(s)	18. Ladders (portable, fixed) 19.Elevated work platform or stairs 20.Slippery surfaces (water, ice, snow) 21.Rolling or pinching objects 22.Sharp objects 23.Poor Housekeeping 24.Repetitive motion or other ergonomic concerns 25.Airborne dust	16. Maintain three points of contact when ascending and descending ladders. 17. Insure area at bottom of ladder is free of obstructions and tripping hazards. 18. Never carry tools in your hands while ascending or descending a ladder. 19. Utilize rope buckets to pull tools up to you or tool belts. Extension ladders will extend up to 36 inches above the landing that is being accessed and be tied off and secured to prevent them from moving or falling. 20. A spotter must hold the ladder if the employee needs to climb the ladder to tie the ladder off. When using an extension ladder, for every 4' of rise, the base must come out 1' (4 to 1 ratio)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		21. If working from a ladder 6 ft. or higher, fall protection is required. Fall protection is not required for climbing ladders less than 20 ft. in height. 22. Use the proper ladder for the job at all times. 23. The belt buckle may never extend past either rail on the side of the ladder. 24. Do not climb higher than the second tread from the top on a stepladder or the third rung 25. Before ascending or descending a ladder, wait until other workers have completely cleared the ladder. Do not stand directly below a person who is climbing or descending a ladder to avoid falling objects.
38. All activities	55. Slips/ Trips/ Falls 56. Hand injuries, cuts or lacerations during manual handling of materials 57. Foot injuries 58. Back injuries 59. Eye Injuries	63. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 64. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 65. Wear proper PPE (Langan approved safety shoes) 66. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 67. Wear high visibility clothing & vest / Use cones or signs to designate work area 68. Wear hard hat / Avoid areas were overhead hazards exist. 69. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 70. Wear safety glasses

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Soil Sampling from Excavator Bucket
JSA Number: JSA057

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.



S – Stop, *what has changed?*
T – Think *about the task*
E – Evaluate *potential hazards*
P – Plan *safe approach*
S - Start *task /* **Stop** *&* *regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☐ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
39. Drive to site and/or sample location.	28. Rough/Off-Road terrain; 29. Low-light or other hazardous environmental conditions.	1. Pay attention to road conditions such as road erosion, unprotected embankments, and soft road conditions; 2. Ensure vehicle is properly equipped and outfitted for the terrain and all environmental conditions.
40. Initial Site Arrival Site Assessment.	1. Unsafe driving conditions including personnel walking within driving areas, open excavation or pits, steep slopes etc.; 2. Biological hazards (snakes, poison oak, bees).	1. Maintain situational awareness upon arriving to the work site (be alert of your surroundings). Secure the work area from through traffic.
41. Unpack and transport equipment to work area.	1. Back Strains; 2. Slip/Trips/Falls; 3. Cuts/Abrasions from equipment; 4. Contusions from dropped equipment.	1. Use proper lifting techniques and use wheeled transport; 2. Minimize distance to work area and create unobstructed path to work area. Follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones and/or caution tape; 3. Wear proper PPE (gloves, long sleeves, etc.); 4. Wear proper PPE (Langan-approved safety shoes, hardhat, etc.).
42. Earth Moving Equipment.	1. Equipment striking, crushing, running over employee etc.	1. Place traffic cones and use caution tape to clearly delineate the excavators front and rear swing radius. Do not enter the excavators or other heavy equipment swing radius/travel paths while in operation; 2. Ensure all employees working in the vicinity of the excavator/heavy equipment maintain direct line of sight with the operator at all times; don't walk behind equipment or within the operators blind spots; maintain a safe distance away from the equipment;

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		3. Designate one employee as the “spotter” to communicate with the excavator operator, and establish a shut-down signal that, when sounded, instructs the excavator operator to freeze/stop all movement of the equipment; 4. Direct operator to completely power down the excavator before approaching (i.e. breaking the swing radius plane) the excavator bucket to collect a sample; 5. Direct the operator keep the equipment completely powered-down until all employees are at a safe distance, and it is safe to continue work. The designated spotter should be the only person directing the operator to power the equipment back on. 6. Conduct a planned pause anytime there is a change in procedure or before beginning a new task; 7. Wear proper PPE (high vis vest/clothing).
43. Icing of Samples & Transporting coolers/equipment from work area.	1. Back Strains 2. Slips/Trips/Falls 3. Cuts/Abrasions from equipment 4. Pinch/Crushing Hazards.	1. Drain coolers of water. Use proper lifting techniques. Use wheeled transport whenever possible; 2. Plan for and utilize a safe and unobstructed path of travel to and from work area. Maintain situational awareness when traveling to and from work area; 3. Wear proper PPE (Leather gloves, long sleeves); 4. Wear proper PPE (Leather gloves, long sleeves, hard hat, Langan approved safety shoes).
44. Excavated soil.	1. Hazardous substances.	1. Use proper equipment to monitor excavated soil for contaminates; 2. Ensure levels do not exceed PEL’s for contaminates; 3. Wear proper PPE.
45. Changing site conditions.	1. Stockpiles and/or excavations/trenches/pits creating unsafe paths of travel. 2. Unforeseen conditions	1. Take time to plan out stockpile, excavation, trench, and/or test pit locations, ensuring that the planned work will not create unsafe conditions or paths of travel once performed; 2. Maintain situational awareness throughout the work day (be alert of the evolving site conditions); 3. If stockpile, excavation, trench, and/or test pit locations create pinch points, site constraints, or unsafe paths of travel or other unsafe site conditions, stop work immediately and direct the excavator operator to correct the unsafe conditions by moving stockpiles, backfilling excavations, trenches, and/or test pits etc.; 4. Use stop work and conduct a planned pause to address changed site conditions.
46. All activities.	1. Slips/ Trips/ Falls; 2. Hand injuries, cuts or lacerations during manual handling of materials; 3. Foot injuries; 4. Back injuries; 5. Traffic; 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.); 7. High Noise levels; 8. Overhead hazards;	1. Be aware of potential trip hazards. Follow good housekeeping procedures. Mark significant hazards; 2. Inspect for jagged/sharp edges, and rough or slippery surfaces. Keep fingers away from pinch points. Wipe off greasy, wet, slippery or dirty objects before handling. Wear proper PPE (leather/ cut-resistant gloves); 3. Wear proper PPE (Langan approved safety shoes); 4. Use proper lifting techniques. Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift. Obtain assistance when possible;

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	9. Heat Stress/ Cold Stress; 10. Eye Injuries.	5. Wear high visibility clothing & vest / Use cones or signs to designate work area; 6. Be aware of surroundings at all times, including the presence of wildlife. Do not approach stray dogs. Carry/use dog/animal repellant. Use bug spray when needed; 7. Wear hearing protection; 8. Wear hard hat / Avoid areas were overhead hazards exist; 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather). Drink plenty of fluids to avoid dehydration. Take breaks as necessary to avoid heat/cold stress; 10. Wear safety glasses

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Groundwater Sampling
JSA Number: JSA008-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.



S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task / **Stop** & regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☒ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek sleeves, Dermal Protection, PID				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
47. Transport equipment to work area	1. Back Strain 2. Slips/ Trips/ Falls 3. Traffic 4. Cuts/abrasions from equipment 5. Contusions from dropped equipment	1. Use proper lifting techniques / Use wheeled transport. 2. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves) 5. Wear proper PPE (safety shoes)
48. Remove well cover	26. Scrape knuckles/hand 27. Strain wrist/bruise palm 28. Pinch fingers or hand	3. Wear proper PPE (leather gloves) 4. Using a hammer, tap the end of the wrench to loosen grip of bolts. 5. Wear proper PPE (leather gloves)
49. Remove well cap and lock	11. Well can pops from pressure. 12. Exposure to hazardous substances through inhalation or dermal exposure 13. Scrape knuckles/hand 14. Strain write/bruise palm	5. Remove cap slowly to relieve pressure / Do not place face over well when opening / Wear proper PPE (safety glasses) 6. Use direct air monitoring/reading instrument (i.e., PID) / Be familiar with and follow actions prescribed in the HASP / Wear proper PPE (nitrile gloves) 7. Wear proper PPE (leather gloves) 8. Using hammer, tap the end of the wrench to loosen grip
50. Measure head-space vapor levels	1. Exposure to hazardous substances through inhalation	1. Do not place face over well when collecting measurement
51. Remove dedicated tubing (if necessary)	1. Exposure to hazardous substances through inhalation or dermal exposure 2. Tubing swings around after removal	1. Wear proper PPE (nitrile gloves, Tyvek sleeves) 2. Wear proper PPE (safety glasses)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
52. Set-up plastic sheeting for work site around the well	1. Lacerations when cutting plastic sheeting.	1. Use scissors to cut plastic sheeting / Cut motions should always be away from body and body parts
53. Measure depth to water	1. Exposure to hazardous substances through inhalation or dermal exposure 2. Pinch fingers or hand in water level instrument	1. Wear proper PPE (nitrile gloves) 2. Wear proper PPE (leather gloves)
54. Calibrate monitoring equipment	1. Skin or eye contact with calibration chemicals 2. Pinch fingers or hand in monitoring equipment	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (leather gloves) / Avoid pinch points
55. Install sampling pump in well	1. Hand injuries during installation of pump 2. Lacerations when cutting tubing. 3. Back strain during installation of pump 4. Physical hazards associated with manual lifting of heavy equipment. 5. Back strain from starting generator. 6. Burns from hot exhaust from generator. 7. Electrical shock from improper use of generator and pump 8. Contaminated water spray from loose connections	1. Wear proper PPE (leather gloves, nitrile gloves) 2. Use safety tubing cutter. 3. Use proper lifting techniques. 4. Use proper lifting techniques / Use wheeled transport for heavy equipment. 5. Use arm when starting generator / Do not over-strain if generator does not start. 6. Do not touch generator near exhaust / Use proper handle to carry / Allow generator to cool down before moving. 7. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord. 8. Check all tubing connections to ensure they are tight and secure

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
10. Purge water	1. Contact with potentially contaminated groundwater. 2. Back strain from lifting buckets of water 3. Tripping potential on sample discharge lines and pump electric lines	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Use proper lifting techniques / Use wheeled transport. 3. Organize discharge of electric line to keep out of way as much as possible / Mark potential tripping hazards with caution tape or safety cones
11. Sample water collection	1. Contact with potentially contaminated groundwater through dermal exposure. 2. Contact with and burns from acid used for sample preservation. 3. Tripping potential on sample discharge lines and pump electric lines 4. Lacerations from broken sample bottles 5. Back strain when transporting coolers full of collected samples. 6. Slips/ Trips/ Falls	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (safety glasses, nitrile gloves) / Ensure sample bottle lids are secure before use and after sample collection. 3. Organize line to keep out of the way as much as possible / Mark potential tripping hazards with caution tape or safety cones. 4. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage / Wrap glass bottles in bubble wrap, if possible 5. Use proper lifting techniques / Use wheeled transport / Seek assistance if coolers weight exceeds 50lbs. / Minimize distance to vehicle. 6. Have unobstructed path to vehicle or collection point / Follow good housekeeping procedures / Do not lift/walk with coolers that are too heavy/difficult to lift
12. Remove pump and pack up equipment	1. Back strain when removing pump or lifting heavy equipment	1. Use proper lifting technique / Use wheeled transport for heavy equipment
13. Replace well cap and lock	1. Scrape fingers/hand 2. Strain wrist/bruise palm	1. Wear proper PPE (leather gloves) 2. Using hammer, tap the end of the well cap to tighten grip
14. Replace well cover	1. Scrape knuckles/hand 2. Strain write/bruise palm. 3. Pinch fingers or hand	1. Wear proper PPE (leather gloves) 2. Using hammer, tap the end of the wrench to tighten the grip of the bolts. 3. Wear proper PPE (leather gloves)
15. Transport drums to disposal staging location	1. Back, arm or shoulder strain from moving drums. 2. Pinch hazard 3. Contact with potentially contaminated groundwater when moving improperly sealed drums. 4. Slips/ Trips/ Falls when moving drum. 5. Drop drum on feet/toes	1. Use drum cart for moving drums / Use proper lifting techniques / Obtain assistance, if needed 2. Wear proper PPE (leather gloves) 3. Wear proper PPE (nitrile gloves under leather gloves) / Properly seal drum to prevent leak. 4. Ensure route to move drum to storage space is dry and free from obstructions. 5. Wear proper PPE (safety shoes)
16. Place used PPE in designated disposal drum	1. Pressure build-up inside drum 2. Pinch hazard	1. Remove cap from bung hole in drum to relieve pressure. 2. Wear proper PPE (leather gloves)
17. Decontaminate equipment	1. Splashing water/soap from decontamination 2. Contact with potentially contaminated groundwater through dermal exposure. 3. Electrical shock from broken electric cords	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (safety glasses, dermal protection) 3. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord
18. All activities	60. Slips/ Trips/ Falls 61. Hand injuries, cuts, or lacerations during manual handling of materials 62. Foot injuries 63. Back injuries 64. Traffic 65. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.)	71. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 72. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 73. Wear Langan approved safety shoes.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	66. High Noise levels 67. Overhead hazards 68. Heat Stress/ Cold Stress 69. Eye Injuries	74. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 75. Wear high visibility clothing & vest / Use cones or signs to designate work area. 76. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 77. Wear hearing protection 78. Wear hard hat / Avoid areas where overhead hazards exist. 79. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 80. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Well Installation**
JSA Number: **JSA019-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.



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E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: PID, Tyvek sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
56. Move equipment to work site	30. Back strain when lifting equipment. 31. Slips/ Trips/ Falls while moving equipment. 32. Traffic (if applicable) 33. Pinched fingers or running over toes during GeoProbe set-up. 34. Overturn drilling rig while transporting to loading dock on flat-bed tow truck	25. Use proper lifting technique (use legs for bending and lifting and not the back)/ Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle 26. Use proper lifting technique (use legs for bending and lifting and not the back) / Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle / Have unobstructed path to vehicle or collection point / Do not lift/walk with boxes that are heavy/difficult to lift 27. Wear high visibility safety vests or clothing / Exercise caution 28. Wear proper PPE (cut-resistant gloves) / Stay alert, be aware of geoprobe rig at all times 29. Drill rig should be parked in center of flat-bed tow truck / Emergency brake shall be used at all times during transport on the flat-bed truck/ All unnecessary personnel should stay away from the flat-bed truck during moving activities
57. Calibration of monitoring equipment	29. Skin or eye contact with calibration chemicals 30. Pinch fingers in monitoring equipment	26. Wear proper PPE (safety glasses/ goggles) 27. Wear proper PPE (leather gloves)
28. Set-up GeoProbe rig	15. Geoprobe rig movement	9. All field personnel should stay clear of the GeoProbe rig while moving / Use a spotter when backing up the GeoProbe
29. Advance GeoProbe rods below ground surface to desired depth	6. Underground utilities 7. High noise levels	9. Clean all subsurface soil borings to a minimum of 5 feet below grade. 10. Wear proper PPE (hearing protection)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
30. Remove and open acetate liner. 5. Remove and open acetate liner (cont'd)	70. Pinched fingers while removing macrocore. 71. Cuts/lacerations when cutting acetate liner open. 72. Exposure to hazardous vapors 73. Skin contacts with contaminated soil	5. Wear proper PPE (nitrile gloves, cut-resistant or leather gloves 6. Wear proper PPE (cut-resistant or leather gloves) 7. Do not place face over acetate liner when opening / Monitor hazardous vapors in air with PID / Upgrade PPE as necessary based on levels contained in the Health and Safety Plan 8. Wear proper PPE (nitrile gloves)
6. Remove excess soil from acetate liner and place in 55-gallon drum (IF NOT PERFORMED BY LANGAN, REMOVE!)	5. Cuts/lacerations from acetate liner 6. Pinched fingers/hand while opening/closing drum. 7. Skin contacts with contaminated soil 8. Soil debris in eyes	5. Wear proper PPE (cut-resistant or leather gloves) 6. Wear proper PPE (cut-resistant or leather gloves) 7. Wear proper PPE (nitrile gloves) 8. Wear proper PPE (safety glasses)
7. Attach hollow-stem augers to the GeoProbe rig; Advance augers and attach. additional augers until desired depth is reached	1. Strain wrist/bruise palm 2. Pinched fingers 3. Back Strain 4. Clothing entanglement 5. Carbon monoxide poisoning 6. Bruise toes/foot 7. High noise levels 8. Skin contacts with contaminated soil	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Use proper lifting techniques. 4. Wear proper work attire(no loose clothing/strings) 5. Properly ventilate work area 6. Wear proper PPE (safety shoes) 7. Wear proper PPE (hearing protection) 8. Wear proper PPE (Tyvek sleeves, nitrile gloves)
8. Install monitoring well	1. Pinched fingers 2. Lacerations/abrasions 3. Back Strain	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Use proper lifting techniques
9. Tremie-grout annulus space above bentonite seal	1. Back strain 2. Pinched fingers	1. Use proper lifting techniques. 2. Wear proper PPE (cut-resistant or leather gloves)
10. Install flush-mount monitoring well pad	1. Splashed concrete. 2. Pinched fingers 3. Cuts/lacerations	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Wear proper PPE (cut-resistant or leather gloves)
11. Decontaminate equipment	1. Splashing water/soap 2. Contact with potentially contaminated groundwater/soil through dermal exposure. 3. Electrical shock from broken electric cords	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (safety glasses, dermal protection) 3. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord
12. Transport drums to central staging location (IF NOT PERFORMED BY LANGAN, REMOVE!)	7. Back, arm or shoulder strain from moving drums. 8. Pinch fingers/hand in drum cart when moving drums. 9. Pinch fingers/hand when operating lift-gate on vehicle. 10. Contact with potentially contaminated groundwater when moving improperly sealed drums. 11. Slips when moving drums. 12. Drop drum on feet/toes	81. Use drum cart for moving drums / Use proper lifting techniques / Do not lift heavy loads without assistance. 82. Wear proper PPE (cut-resistant or leather gloves) 83. Wear proper PPE (cut-resistant or leather gloves) 84. Wear proper PPE (nitrile gloves underneath work gloves) 85. Follow good housekeeping procedures / Ensure route to move drum and storage space is free from obstructions. 86. Wear proper PPE (safety shoes) / Work in a safe manner to prevent dropped drum

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
13. All activities 13. All activities (cont'd)	11. Slips/ Trips/ Falls 12. Hand injuries, cuts, or lacerations during manual handling of materials 13. Foot injuries 14. Back injuries 15. Traffic 16. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 17. High Noise levels 18. Overhead hazards 19. Heat Stress/ Cold Stress 20. Eye Injuries	11. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 12. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 13. Wear Langan approved safety shoes. 14. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 15. Wear high visibility clothing & vest / Use cones or signs to designate work area. 16. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 17. Wear hearing protection 18. Wear hard hat / Avoid areas where overhead hazards exist. 19. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 20. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Monitoring Well Development**
JSA Number: **JSA026-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.



S – *Stop,* what has changed?
T – *Think* about the task
E – *Evaluate* potential hazards
P – *Plan* safe approach
S - *Start* task / *Stop* & regroup

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
58. Transport equipment to work area	35. Back Strains 36. Slips/Trips/Falls 37. Traffic 38. Cuts/Abrasions/Contusions from equipment	30. Use proper lifting techniques/ Use wheeled transport/ use buddy system when lifting equipment. 31. Minimize distance from work area/ unobstructed path to collection points and vehicle/ Follow good housekeeping procedures. 32. Wear high-visibility vest or clothing/Exercise caution/ Use traffic cones or signage if needed. 33. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes).
59. Measure depth of water	31. Exposure to hazardous substances 32. Pinched fingers	31. Wear proper PPE (Nitrile gloves, Safety glasses/Face shield). 32. Wear proper PPE (cut-resistant gloves).
60. Install Tremie pipe in the monitoring well and connect to water source.	16. Hand injuries during installation (pinched fingers/hands). 17. Back strain from holding Tremie pipe. 18. High pressure water spray.	10. Wear proper PPE (Nitrile gloves/cut-resistant gloves). 11. Use proper lifting techniques/ Use two personnel when lowering pump greater than 80 feet. 12. Ensure all those connections are tight and secure/ Use proper PPE (face shield and safety glasses).
61. Install pump in to well. a. Connect pump to sample tubing. b. Lower pump to desired depth in well. c. Connect sample tubing to flow cell. d. Connect pump to power source	8. Hand injuries during pump installation and sample tubing cutting. 9. Back strain 10. Electric shock 11. Exhaust gases from generator 12. Burns from hot equipment	11. Wear proper PPE when installing pump and cutting sample tubing (Nitrile and cut-resistant gloves)/ Use tubing cutter. 12. Proper lifting techniques/ Two personnel when installing pump at depths greater than 80 feet/ Use buddy when lifting heavy loads (pump, generator)/Use wheeled transport. 13. Ensure equipment is (LO/TO: locked out/tagged out) prior to preforming any electrical connections/ Inspect wires for frays or cuts/Ensure generator is properly grounded prior to starting.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
(generator) e. Turn on power source (generator)		14. Position generator so that exhaust is flowing away from work area. 15. Do not touch exhaust or any hot part of generator/ Allow equipment time to cool down prior to carrying/ Use proper PPE (long sleeves, leather gloves)
62. Develop monitoring well. a. Jet water into well using Tremie pipe. b. Turn pump on and adjust to desired flow rate. c. Surge pump up and down well to remove sediment from screen. d. Containerize all purge water from well.	74. Hand injuries 75. Face injuries 76. Contaminated spray from water	87. Wear proper PPE (cut-resistant gloves and nitrile gloves). 88. Wear proper PPE (face shield and safety glasses)/do not stand over well opening. 89. Wear proper PPE (Face shield and safety goggles)/Tyvek over garments/ Ensure all connections are secure and tight/ Tubing outlet is contained in an overflow container.
63. Drum staging area.	1. Back, Arm, and shoulder strain. 2. Pinch points 3. Cross contamination 4. Slip/Trips/Falls	1. Use proper lifting techniques/ Use drum carts when moving drums/ use buddy system for moving of drums if needed/Move drums shortest distance needed. 2. Keep fingers and feet away from pinch points/ Use proper PPE (cut-resistant gloves, Langan approved safety shoes) 3. Use proper PPE (Nitrile gloves, Tyvek sleeves) 4. Ensure pathway is clear prior to moving equipment/ Mark all hazards/ Use additional person as a spotter if needed.
64. Equipment pack-up	1. Back Strains 2. Slips/Trips/Falls 3. Traffic 4. Cuts/Abrasions/Contusions from equipment.	1. Use proper lifting techniques/ Use wheeled transport/ use buddy system when lifting equipment. 2. Minimize distance from work area/ Unobstructed path to collection points and vehicle/ Follow good housekeeping procedures. 3. Wear high-visibility vest or clothing/Exercise caution/ Use traffic cones or signage if needed. 90. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes).
65. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 77. Back injuries 78. Traffic 79. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 80. High Noise levels 81. Overhead hazards 82. Heat Stress/ Cold Stress 83. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses.
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Groundwater/Product Purging/Sampling with Bailer**
JSA Number: **JSA053**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.



S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☒ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☒ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek sleeves, Dermal Protection, PID, absorbent pads				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
66. Transport equipment to work area	6. Back Strain 7. Slips/ Trips/ Falls 8. Traffic 9. Cuts/abrasions from equipment 10. Contusions from dropped equipment	6. Use proper lifting techniques / Use wheeled transport. 7. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 8. Wear proper PPE (high visibility vest or clothing) 9. Wear proper PPE (leather gloves, long sleeves) 10. Wear proper PPE (safety shoes)
67. Remove well cover	33. Scrape knuckles/hand 34. Strain wrist/bruise plan 35. Pinch fingers or hand	6. Wear proper PPE (leather gloves) 7. Using a hammer, tap the end of the wrench to loosen grip of bolts. 8. Wear proper PPE (leather gloves)
68. Remove well cap and lock	19. Well can pops from pressure. 20. Exposure to hazardous substances through inhalation or dermal exposure 21. Scrape knuckles/hand 22. Pinch points 23. Strain write/bruise palm	9. Remove cap slowly to relieve pressure / Do not place face over well when opening / Wear proper PPE (safety glasses, face shield, hand protection) 10. Use direct air monitoring/reading instrument (i.e., PID) / Be familiar with and follow actions prescribed in the HASP / Wear proper PPE (nitrile gloves) 11. Wear proper PPE (leather gloves) 12. Using hammer, tap the end of the wrench to loosen grip
69. Measure head-space vapor levels	2. Exposure to hazardous substances through inhalation	2. Do not place face over well when collecting measurement
70. Set-up plastic sheeting/absorbent pads	2. Lacerations when cutting plastic sheeting/absorbent pads.	2. Use scissors to cut plastic sheeting/absorbent pads / Cut motions should always be away from body and body parts

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
for work site around the well		
71. Lower Bailer sleeve into well	7. Repetitive motion injury (pulled arm/back muscles) 8. Dehydration	7. Take breaks while lowering bailer into well/ Use a mechanical device to lower bailer into well/ Rotate employees (take turns conducting the manual labor portion) 8. Take breaks and drink water.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
7. Purge/Sample water/product collection	1. Contact with potentially contaminated groundwater or product through dermal exposure 2. Contact with and burns from acid used for sample preservation 9. Tripping potential on sampling lanyard 10. Lacerations from broken sample bottles 11. Back strain when transporting coolers full of collected samples. 12. Slips/ Trips/ Falls	1. Wear proper PPE (safety glasses, nitrile gloves, safety shield, Tyvek) 2. Ensure sample bottle lids are secure before use and after sample collection 3. Organize lanyard to keep out of the way as much as possible / Mark potential tripping hazards with caution tape or safety cones 9. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage / Wrap glass bottles in bubble wrap, if possible 10. Use proper lifting techniques / Use wheeled transport / Seek assistance if coolers weight exceeds 50lbs. / Minimize distance to vehicle. 11. Have unobstructed path to vehicle or collection point / Follow good housekeeping procedures / Do not lift/walk with coolers that are too heavy/difficult to lift
8. Retrieval of bailer	9. Repetitive motion injury (pulled arm/back muscles) 10. Dehydration	9. Take breaks while retrieving bailer out of the well/ Use a mechanical device to raise bailer out of well/ Rotate employees (take turns conducting the manual labor portion) 10. Take breaks and drink water.
9. Pack-up equipment	2. Back strain when removing or lifting heavy equipment	2. Use proper lifting technique / Use wheeled transport for heavy equipment
10. Replace well cap and lock	3. Scrape fingers/hand 4. Strain wrist/bruise palm	3. Wear proper PPE (leather gloves) 4. Using hammer, tap the end of the well cap to tighten grip
11. Replace well cover	4. Scrape knuckles/hand 5. Strain write/bruise palm. 6. Pinch fingers or hand	4. Wear proper PPE (leather gloves) 5. Using hammer, tap the end of the wrench to tighten the grip of the bolts. 6. Wear proper PPE (leather gloves)
12. Place used PPE in designated disposal drum	3. Pressure build-up inside drum 4. Pinch hazard	3. Remove cap from bung hole in drum to relieve pressure. 4. Wear proper PPE (leather gloves) 5. Product drums may require additional spill protection/electrical grounding, check local regulations
13. Decontaminate equipment	4. Splashing water/soap from decontamination 5. Contact with potentially contaminated groundwater through dermal exposure.	4. Wear proper PPE (safety glasses) 5. Wear proper PPE (safety glasses, dermal protection)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
14. All activities	84. Slips/ Trips/ Falls 85. Hand injuries, cuts, or lacerations during manual handling of materials 86. Foot injuries 87. Back injuries 88. Traffic 89. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 90. High Noise levels 91. Overhead hazards 92. Heat Stress/ Cold Stress 93. Eye Injuries	91. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 92. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 93. Wear Langan approved safety shoes. 94. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 95. Wear high visibility clothing & vest / Use cones or signs to designate work area. 96. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 97. Wear hearing protection 98. Wear hard hat / Avoid areas where overhead hazards exist. 99. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 100. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Hammer Drill
JSA Number: JSA049

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.



S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
72.Transport equipment to work area	39.Back Strain 40.Slips/ Trips/ Falls 41.Traffic 42.Cuts/abrasions from equipment 43.Contusions from dropped equipment	6. Use proper lifting techniques / Use wheeled transport. 7. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 8. Wear proper PPE (high visibility vest or clothing) 9. Wear proper PPE (leather gloves, long sleeves) 10. Wear proper PPE (safety shoes)
73.Electrical Connection	36.Inspect electrical cord to drill. 37.Inspect hammer drill. 38.Inspect extension cord. 39.Test GFCI	9. Check the plug, ensure all connections are in place, check cord for frayed sections. If plug or cord are worn, do not use equipment until repaired. 10. Inspect chuck for proper grasping and holding of bit, check that plastic housing is not cracked or missing pieces. Do not use if chuck does not work properly or housing is compromised. 11. Inspect extension cord, if worn or stripped pull from service and replace 12. Test GFCI, replace if GFCI fails
74.Drill Bit	1. Inspect drill bit	1. Replace if worn. 2. Wear proper PPE (leather gloves) when installing and removing drill bit. 3. Ensure equipment is unplugged from electrical power when removing and installing drill bit.
75.Use of Hammer Drill	1. Hazards associated with using hammer drill, flying objects, heavy equipment, ground level hazards and dust. 2. Slips/ Trips/ Falls 3. Hazards associated drilling into concrete slab	1. Maintain a safe distance from other site operations / Wear proper PPE (hard hat, safety glasses, safety shoes, safety vest, ear protection and leather gloves) 2. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark extension cord pathway with safety cones. 3. Do not push hammer drill during use.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
76. All activities 4. All activities (cont'd)	94. Slips/ Trips/ Falls 95. Hand injuries, cuts, or lacerations during manual handling of materials 96. Foot injuries 97. Back injuries 98. Traffic 99. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 100. High Noise levels 101. Overhead hazards 102. Heat Stress/ Cold Stress 103. Eye Injuries	101. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 102. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 103. Wear Langan approved safety shoes. 104. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 105. Wear high visibility clothing & vest / Use cones or signs to designate work area. 106. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 107. Wear hearing protection 108. Wear hard hat / Avoid areas where overhead hazards exist. 109. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 110. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Hand Auger Soil Sampling
JSA Number: JSA003-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.



S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Half-face respirator, dust cartridges, PID (if applicable)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
77. Unpack equipment	44. Slips/ Trips/ Falls 45. Physical hazards including strains and hand injury	1. Be aware of hazards in area/ Place safety cones in areas of potential slips/trips/falls 2. Use proper lifting techniques / Do not lift heavy loads without assitance / Avoid putting hands near pinch points / Wear proper PPE (leather gloves)
78. Calibration of monitoring equipment	40. Skin or eye contact with calibration chemicals 41. Pinch fingers in monitoring equipment	33. Wear proper PPE (safety glasses/ goggles) 34. Wear proper PPE (leather gloves)
79. Advancing and removing hand auger	24. Physical hazards including back strain and hand injury	13. Twist auger using arms and shoulders/ Do not over exert / Keep back in neutral position, bend at the knees / Request assistance when needed / Remove auger from ground keeping back in neutral position and lift using legs
80. Sample collections a) Monitor parameters b) Prepare sample containers and labels c) Collect soil sample d) Securely cap containers, label and store in sample cooler until shipping e) Deliver cooler to lab or courier to lab	13. Contact with potentially contaminated soil 14. Lacerations from broken sample bottles 15. Back strain with transporting coolers 16. Internal exposure to contaminants through inhalation of dust 17. Slips/ Trips/ Falls	16. Use monitoring devices / Wear proper PPE (safety glasses, nitrile gloves) 17. Do not over-tighten bottles caps / Handle bottles safety to prevent breakage 18. Use proper lifting techniques / Do not lift heavy loads without assistance 19. Avoid creating dust / If necessary, wear a half-face respirator with applicable dust cartridges / Inspect respirator for damage and cleanliness prior to use / Clean respirator after each use and store in a clean, secure location 20. Be alert / Follow good housekeeping procedures

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
81. Decontamination of equipment	104. Splashing water/soap from decontamination 105. Contact with potentially contaminated soil	111. Wear proper PPE (safety glasses, gloves) 112. Wear proper PPE (safety glasses, gloves)
82. All activities 6. All activities (cont'd)	1. Slips/ Trips/ Falls 2. Hand injuries, cuts or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas were overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN	Job Safety Analysis (JSA) Health and Safety
JSA Title: Groundwater/Product Purging/Sampling with Bailer **JSA Number:** JSA053 **A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.**	 S – **Stop,** *what has changed?* T – ***Think*** *about the task* E – ***Evaluate*** *potential hazards* P – ***Plan*** *safe approach* S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☒ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☒ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek sleeves, Dermal Protection, PID, absorbent pads				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
83. Transport equipment to work area	11. Back Strain 12. Slips/ Trips/ Falls 13. Traffic 14. Cuts/abrasions from equipment 15. Contusions from dropped equipment	11. Use proper lifting techniuqes / Use wheeled transport 12. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 13. Wear proper PPE (high visibility vest or clothing) 14. Wear proper PPE (leather gloves, long sleeves) 15. Wear proper PPE (safety shoes)
84. Remove well cover	42. Scrape knuckles/hand 43. Strain wrist/bruise plan 44. Pinch fingers or hand	13. Wear proper PPE (leather gloves) 14. Using a hammer, tap the end of the wrench to loosen grip of bolts 15. Wear proper PPE (leather gloves)
85. Remove well cap and lock	25. Well can pops from pressure 26. Exposure to hazardous substances through inhalation or dermal exposure 27. Scrape knuckles/hand 28. Pinch points 29. Strain write/bruise palm	13. Remove cap slowly to relieve pressure / Do not place face over well when opening / Wear proper PPE (safety glasses, face shield, hand protection) 14. Use direct air monitoring/reading instrument (i.e. PID) / Be familiar with and follow actions prescribed in the HASP / Wear proper PPE (nitrile gloves) 15. Wear proper PPE (leather gloves) 16. Using hammer, tap the end of the wrench to loosen grip
86. Measure head-space vapor levels	3. Exposure to hazardous substances through inhalation	3. Do not place face over well when collecting measurement
87. Set-up plastic sheeting/absorbent pads for work site around the well	3. Lacerations when cutting plastic sheeting/absorbent pads	3. Use scissors to cut plastic sheeting/absorbent pads / Cut motions should always be away from body and body parts

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
88. Lower Bailer sleeve into well	12. Repetitive motion injury (pulled arm/back muscles) 13. Dehydration	13. Take breaks while lowering bailer into well/ Use a mechanical device to lower bailer into well/ Rotate employees (take turns conducting the manual labor portion) 14. Take breaks and drink water.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
7. Purge/Sample water/product collection	1. Contact with potentially contaminated groundwater or product through dermal exposure 2. Contact with and burns from acid used for sample preservation 15. Tripping potential on sampling lanyard 16. Lacerations from broken sample bottles 17. Back strain when transporting coolers full of collected samples 18. Slips/ Trips/ Falls	1. Wear proper PPE (safety glasses, nitrile gloves, safety shield, Tyvek) 2. Ensure sample bottle lids are secure before use and after sample collection 3. Organize lanyard to keep out of the way as much as possible / Mark potential tripping hazards with caution tape or safety cones 14. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage / Wrap glass bottles in bubble wrap, if possible 15. Use proper lifting techniques / Use wheeled transport / Seek assistance if coolers weight exceeds 50lbs. / Minimize distance to vehicle 16. Have unobstructed path to vehicle or collection point / Follow good housekeeping procedures / Do not lift/walk with coolers that are too heavy/difficult to lift
8. Retrieval of bailer	11. Repetitive motion injury (pulled arm/back muscles) 12. Dehydration	11. Take breaks while retrieving bailer out of the well/ Use a mechanical device to raise bailer out of well/ Rotate employees (take turns conducting the manual labor portion) 12. Take breaks and drink water.
9. Pack-up equipment	3. Back strain when removing or lifting heavy equipment	3. Use proper lifting technique / Use wheeled transport for heavy equipment
10. Replace well cap and lock	5. Scrape fingers/hand 6. Strain wrist/bruise palm	5. Wear proper PPE (leather gloves) 6. Using hammer, tap the end of the well cap to tighten grip
11. Replace well cover	7. Scrape knuckles/hand 8. Strain write/bruise palm 9. Pinch fingers or hand	7. Wear proper PPE (leather gloves) 8. Using hammer, tap the end of the wrench to tighten the grip of the bolts 9. Wear proper PPE (leather gloves)
12. Place used PPE in designated disposal drum	5. Pressure build-up inside drum 6. Pinch hazard	6. Remove cap from bung hole in drum to relieve pressure 7. Wear proper PPE (leather gloves) 8. Product drums may require additional spill protecton/electrical grounding, check local regulations
13. Decontaminate equipment	6. Splashing water/soap from decontamination 7. Contact with potentially contaminated groundwater through dermal exposure	6. Wear proper PPE (safety glasses) 7. Wear proper PPE (safety glasses, dermal protection)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
14. All activities	106. Slips/ Trips/ Falls 107. Hand injuries, cuts or lacerations during manual handling of materials 108. Foot injuries 109. Back injuries 110. Traffic 111. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 112. High Noise levels 113. Overhead hazards 114. Heat Stress/ Cold Stress 115. Eye Injuries	113. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 114. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 115. Wear Langan approved safety shoes 116. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 117. Wear high visibility clothing & vest / Use cones or signs to designate work area 118. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 119. Wear hearing protection 120. Wear hard hat / Avoid areas were overhead hazards exist. 121. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 122. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Sub-slab soil gas temporary point installation and sampling**
JSA Number: **JSA037-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.



S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☒ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
89. Transport equipment to work site	46. Back injuries 47. Slips/Trips/Falls 48. Traffic 49. Hand injuries	34. Use proper lifting techniques/ Use wheeled transport/ Get assistance when need with moving equipment/ Minimize distance from vehicle 35. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures. 36. Wear proper PPE (High Visibility vest and clothing)/ Exercise caution (stay alert-stay alive) 37. Wear proper PPE (leather gloves)/ Keep finger and hands clear of pinch points.
90. Mark area for drilling	45. Slips/Trips/Falls	35. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures
91. Drill sampling points with hammer drill	30. Eye injuries 31. Dust exposure 32. Hand injuries 33. Catch items (clothing) 34. Electric shock 35. Chemical atmosphere hazard (vapor) 36. Slips/Trips/Falls	14. Wear proper PPE (safety glasses) 15. Wear proper PPE (dust mask) 16. Wear proper PPE (leather gloves)/ Keep hands and fingers out of pinch points/ Avoid drill catching on ground and twisting wrist or hand/ Release drill grip if drill becomes caught/ Ensure drill is unplugged prior to inserting bit. 17. Tie up or tuck-in all loose clothing/ Maintain distance from drill 18. Inspect power cable for cuts or nicks before use/ Use GFCI outlet on power cord/ Do not use in wet conditions 19. Monitor air, vapors with Photo-ionization detector (PID)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		20. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures
92. Measure vapor content and depth to bottom of hole	1. Chemical atmosphere hazard (vapors)	1. Monitor air, vapors with Photo-ionization detector (PID)/ Keep face away from opening of hole while collecting measurements
93. Set-up of shroud and sampling canister system	1. Hand injuries 2. Chemical atmosphere hazard (vapors) 3. Slips/Trips/Falls	1. Wear proper PPE (leather gloves, nitrile gloves)/ Keep fingers away from pinch points when installing pump/ Do not use open blades, use tubing cutter 2. Monitor air, vapors with Photo-ionization detector (PID)/ Keep face away from opening of hole while collecting measurements 3. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures
94. Purge soil gas	1. Chemical atmosphere hazard (vapors)	1. Monitor air, vapors with Photo-ionization detector (PID)/ Keep face away from exhaust port of pump
95. Sample collection (opening and closing valves)	1. Hand injuries	1. Wear proper PPE (leather gloves)/ Keep fingers away from pinch points
96. Sealing sampling holes	1. Back injuries 2. Concrete dust 3. Eye injuries	1. Use proper lifting techniques for lifting of cement bags 2. Wear proper PPE (dust mask) 3. Wear proper PPE (safety glasses)
97. All activities	116. Slips/ Trips/ Falls 117. Hand injuries, cuts or lacerations during manual handling of materials 118. Foot injuries 119. Back injuries 120. Traffic 121. Wildlife: Stray animals, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 122. High Noise levels 123. Overhead hazards 124. Heat or cold injuries 125. Eye Injuries	123. Be aware of potential trip hazards/ Follow good housekeeping procedures/ Mark significant hazards 124. Inspect for jagged/sharp edges, and rough or slippery surfaces/ Keep fingers away from pinch points/ Wipe off greasy, wet, slippery or dirty objects before handling/ Wear leather/ cut-resistant gloves Wear proper PPE (Langan approved safety shoes) 125. Use proper lifting techniques/ Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift/ Obtain assistance when possible 126. Wear high visibility clothing & vest/ Use cones or signs to designate work area 127. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray animals/ Carry and use animal repellant when needed/ Use bug spray when needed 128. Wear hearing protection 129. Wear hard hat/ Avoid areas were overhead hazards exist. 130. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather)/ Drink plenty of fluids to avoid dehydration/ Takes breaks as necessary to avoid heat/cold stress 131. Wear safety glasses

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Indoor Air Sampling
JSA Number: JSA007-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.



S – *Stop,* what has changed?
T – *Think* about the task
E – *Evaluate* potential hazards
P – *Plan* safe approach
S - *Start* task / *Stop* & regroup

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: PID, Respiratory Protection (if necessary)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
98. Building walkthrough and background contaminant removal	50. Slips / Trips/ Falls 51. Exposure to substances/vapors during removal	11. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray paint 12. Monitor indoor air concentrations with a PID / Wear proper PPE (nitrile gloves) / Wear proper respiratory protection if necessary
99. Transport equipment to work area	16. Back Strain 17. Slips/ Trips/ Falls 18. Traffic 19. Cuts/abrasions from equipment 20. Contusions from dropped equipment	16. Use proper lifting techniques / Use wheeled transport 17. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 18. Wear proper PPE (high visibility vest or clothing) 19. Wear proper PPE (leather gloves, long sleeves) 20. Wear proper PPE (safety shoes)
100. Mark out areas for indoor air sampling	46. Slips/ Trips/ Falls	16. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray paint
101. Set-up canisters and begin indoor air sampling	37. Dropping crates or canisters 38. Pinch hazard	17. Exercise caution when moving crates and canisters / Use proper housekeeping of materials during sample events / Do not carry too many items at one time / Perform several trips, if necessary 18. Wear proper PPE (leather gloves)
102. Sample collection	4. Dropping crates or canisters 5. Pinched fingers from opening valves	4. Exercise caution when moving crates and canisters / Use proper housekeeping of materials during sample events / Do not carry too many items at one time / Perform several trips, if necessary 5. Wear proper PPE (leather gloves) / Keep fingers away from pinch points
103. Pack up equipment	3. Back strain	3. Use proper lifting techniques / Use wheeled transport

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	4. Slips/ Trips/ Falls 5. Traffic	4. Be aware of potential trip hazards / Follow good housekeeping procedures / Minimize distance to vehicle 5. Wear proper PPE (safety vest)
104. All activities	126. Slips/ Trips/ Falls 127. Hand injuries, cuts or lacerations during manual handling of materials 128. Foot injuries 129. Back injuries 130. Traffic 131. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 132. High Noise levels 133. Overhead hazards 134. Heat Stress/ Cold Stress 135. Eye Injuries	132. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 133. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 134. Wear Langan approved safety shoes 135. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 136. Wear high visibility clothing & vest / Use cones or signs to designate work area 137. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 138. Wear hearing protection 139. Wear hard hat / Avoid areas were overhead hazards exist. 140. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 141. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Geotechnical Drilling
JSA Number: JSA014-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.



PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: NomeX (as needed)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
105. Transport equipment to work area	52. Back Strain 53. Slips/ Trips/ Falls 54. Traffic 55. Cuts/abrasions from equipment 56. Contusions from dropped equipment	13. Use proper lifting techniques / Use wheeled transport. 14. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 15. Wear proper PPE (high visibility vest or clothing) 16. Wear proper PPE (leather gloves, long sleeves) 17. Wear proper PPE (safety shoes)
106. Set-up HSA/SPT rig	47. Slips/ Trips/ Falls 48. Pinch Hazards 49. High noise levels 50. Clothing entanglement 51. Electrocution/falling equipment and debris from raising HSA/SPT rig mast. 52. Carbon monoxide poisoning 53. HSA/SPT rig roll-over 54. HSA/SPT rig movement	17. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark significant below-grade hazards (i.e., holes, trenches) with safety cones or spray paint 18. Wear proper PPE (leather gloves) 19. Wear proper PPE (hearing protection) 20. Wear proper attire for HSA/SPT rig (no loose clothing, strings, etc.) 21. Wear proper PPE (hard hats) / Be aware of locations at all times / Look up, down and around before raising mast / Check HSA/SPT drill rig mast for loose objects/debris before raising 22. Stand upwind of rig engine 23. Do not move rig with mast raised / Set stabilizers prior to raising mast / Inspect work area / If area appears unstable, the boring locations should be moved. 24. All field personnel should stay clear of rig while moving / Use a spotter when backing up the rig
107. Advance HSA/SPT rods, augers, and casing below ground surface	39. Strain wrist/bruise palm 40. Pinched fingers 41. Back strain	19. Wear proper PPE (leather gloves) / Use proper technique for preparing rods / Use second person, if necessary 20. Wear proper PPE (leather gloves)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
108. Advance HSA/SPT rods, augers, and casing below ground surface (cont'd)	42. Clothing entanglement 43. Carbon monoxide poisoning 44. Bruised/Broken toes/feet 45. High noise levels	21. Use proper lifting techniques / Obtain assistance if needed 22. Wear proper attire for HSA/SPT rig (no loose clothing, strings, etc.) 23. Stand upwind of the rig 24. Wear proper PPE (safety shoes) 25. Wear proper PPE (hearing protection)
109. Remove and open split spoon	18. Pinched fingers 19. Cuts/lacerations 20. Skin contact with contaminated soil and groundwater	1. Wear proper PPE (nitrile and leather gloves) 2. Wear proper PPE (leather gloves) 3. Wear proper PPE (nitrile gloves, safety glasses)
110. Repeat steps 3 and 4 until desired depth is reached	1. See steps 3 and 4	1. See steps 3 and 4
111. Remove HSA/SPT rods, augers and casing and place in storage rack	1. Clothing entanglement 2. Back strain 3. Pinched fingers 4. Carbon monoxide poisoning 5. High noise levels	1. Wear proper attire for HSA/SPT rig (no loose clothing, strings, etc.) 2. Use proper lifting techniques / Obtain assistance if needed 3. Wear proper PPE (leather gloves) 4. Stand upwind of rig engine 5. Wear proper PPE (hearing protection)
112. Tremie-grout borehole with a cement-bentonite grout mixture	1. Splash cement/bentonite grout on face/eyes 2. Back strain 3. Pinched fingers	1. Wear proper PPE (safety glasses) 2. Use proper lifting techniques / Obtain assistance if needed 3. Wear proper PPE (nitrile gloves, leather gloves)
113. Decontaminate equipment	1. Contact with potentially impacted material 2. Contact with sharp pieces of equipment	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (leather gloves)
114. Patch soil boring location to return to pre-existing conditions (i.e. concrete, asphalt, grass)	1. Cuts/lacerations 2. Splashed concrete on face/eyes 3. Hammer fingers/hands when patching asphalt	1. Wear proper PPE (leather gloves) / Use scissors for cutting 2. Use proper PPE (safety glasses) 3. Be aware of hands/fingers during hammering / Wear proper PPE (leather gloves)
115. All activities	136. Slips/ Trips/ Falls 137. Hand injuries, cuts, or lacerations during manual handling of materials 138. Foot injuries 139. Back injuries 140. Traffic 141. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 142. High Noise levels 143. Overhead hazards 144. Heat Stress/ Cold Stress 145. Eye Injuries	142. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 143. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 144. Wear Langan approved safety shoes 145. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 146. Wear high visibility clothing & vest / Use cones or signs to designate work area 147. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 148. Wear hearing protection 149. Wear hard hat / Avoid areas were overhead hazards exist.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		150. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 151. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Test Pits
JSA Number: JSA016-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.



S – *Stop,* what has changed?
T – *Think* about the task
E – *Evaluate* potential hazards
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S - *Start* task / *Stop* & regroup

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
116. Transport equipment to work area	57. Back Strain 58. Slips/ Trips/ Falls 59. Traffic 60. Cuts/abrasions from equipment 61. Contusions from dropped equipment	18. Use proper lifting techniques / Use wheeled transport 19. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 20. Wear proper PPE (high visibility vest or clothing) 21. Wear proper PPE (leather gloves, long sleeves) 22. Wear proper PPE (safety shoes)
117. Digging Test Pit	55. Back Strain 56. Unstable walls of excavation	25. Observe proper digging technique. Ensure spoil pile and equipment are at least 2 feet from edge of excavation. 26. Excavate test pit in a stepped manor.
118. All activities	146. Slips/ Trips/ Falls 147. Hand injuries, cuts, or lacerations during manual handling of materials 148. Foot injuries 149. Back injuries 150. Traffic 151. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 152. High Noise levels 153. Overhead hazards 154. Heat Stress/ Cold Stress 155. Eye Injuries	152. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 153. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 154. Wear Langan approved safety shoes 155. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 156. Wear high visibility clothing & vest / Use cones or signs to designate work area 157. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
3. All activities (cont'd)		158. Wear hearing protection 159. Wear hard hat / Avoid areas where overhead hazards exist. 160. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 161. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Sampling from Open Pit
JSA Number: JSA068

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.



S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
119. Transport equipment to work area	62. Back strains 63. Slips/Trips/ Falls 64. Traffic 65. Cuts/Abrasions/Contusions from equipment 66. Driving terrain/road hazards	38. Use proper lifting techniques/Use wheeled transport 39. Minimize distance to work area/ Have unobstructed path to work area/ Follow good housekeeping procedures. 40. Wear proper PPE (high-visibilty vest or clothing) 41. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes) 42. Safety belts/ Be aware of road and weather conditions/watch when exiting vehicle
120. Walk from vehicle to sample locations	57. Slips/Trips/Falls 58. Back strains	36. Minimize distance to work area/ have unobstructed path to work area/ Follow good housekeeping procedures/ Locate safest access point/ Mark significant hazards with spray paint or cones/ Carry equipment in a way that it allows you to see walking path. 37. Use proper lifting techniques/Use wheeled transport/ Obtain assistance when needed
121. Excavation	46. Excavation collapse 47. Confined space 48. Soil	21. Use proper shoring/benching/sloping techniques; Ladder is properly situated in excavation; no water in excavation; competent person has inspected excavation prior to allow employees to enter. 22. Langan employees are not authorized to enter a confined space; 23. Soil and equipment are kept at least 2 feet from edge of excavation
122. Surface Water Sampling	1. Contaminated media. Skin/eye contact with biological agents and/or chemicals.	1. Wear appropriate PPE (Safety glasses, appropriate gloves). Review SDS for all chemicals present.
123. Sample Collection (Water)	1. Drowning Hazards	1. Use buddy system/ Wear flotation vest if water is deeper than 2 feet or swift moving/ Select working area with stable footing/ Do not attempt to

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	2. Chemical burns (when adding acid preservative to sample) 3. Back Strains 4. Ergonomic issues 5. Slip/Trips/Falls	cross or stand in swift moving water. Ensure fall protection harness is secure and working properly. 2. Wear proper PPE (Nitrile gloves, Tyvek Sleeves) 3. Do not over-tighten bottle caps / Handle bottles safely to avoid breakage / Wrap glass bottles in bubble wrap, if possible 4. Use proper lifting techniques/ Use wheeled transport/ Obtain assistance where and when needed/ Consider load weight when evaluating what is safe or unsafe to carry. 5. When possible, avoid bending over for long periods of time/ Use a small stool for sitting or knee pad for kneeling. 6. Minimize distance to sample area/ Plan route and check surface prior to carrying heavy equipment/ Locate safest access point/ Follow good housekeeping procedures/ Mark significant below grade hazards (holes, trenches) with spray paint or cones/ Wear foot protection with ankle support and gripping soles/ Avoid standing water or slippery terrain.
124. Icing of Samples & Transporting coolers/equipment from work area.	5. Back Strains 6. Slips/Trips/Falls 7. Cuts/Abrasions from equipment 8. Pinch/Crushing Hazards. 6.	5. Drain coolers of water. Use proper lifting techniques. Use wheeled transport whenever possible; 6. Plan for and utilize a safe and unobstructed path of travel to and from work area. Maintain situational awareness when traveling to and from work area; 7. Wear proper PPE (Leather gloves, long sleeves); 7. Wear proper PPE (Leather gloves, long sleeves, hard hat, Langan approved safety shoes).
125. All activities	156. Slips/ Trips/ Falls 157. Hand injuries, cuts or lacerations during manual handling of materials 158. Foot injuries 159. Back injuries 160. Traffic 161. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 162. High Noise levels 163. Overhead hazards 164. Heat Stress/ Cold Stress 165. Eye Injuries	162. Be aware of potential trip hazards/ Follow good housekeeping procedures/ Mark significant hazards 163. Inspect for jagged/sharp edges, and rough or slippery surfaces/ Keep fingers away from pinch points/ Wipe off greasy, wet, slippery or dirty objects before handling/ Wear leather/ Cut-resistant gloves 164. Wear proper PPE (Langan approved safety shoes). 165. Use proper lifting techniques/ Consider load location, task repetition, and load weight when evaluating what is safe or unsafe to lift/ Obtain assistance when possible. 166. Wear high visibility clothing & vest/ Use cones or signs to designate work area 167. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs/ Carry and use animal repellant when needed/ Use bug spray when needed 168. Wear proper PPE (hearing protection) 169. Wear hard hat/ Avoid areas were overhead hazards exist. 170. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather)/ Drink plenty of fluids to avoid dehydration/ Takes breaks as necessary to avoid heat/cold stress 171. Wear proper PPE (safety glasses)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
Additional items.		
Additional Items identified while in the field.		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Soft Dig - Air Knife, Vac Truck, Slide Hammer, Hand Auger and Borehole Triangulation
JSA Number: JSA073

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.



S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Half-face respirator, dust cartridges, and PID (if applicable)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
126. Pre-work safety meeting	67. Improper communication	43. Ensure all paperwork is ready for project 44. Ensure all personnel have read and understand the work plan, reviewed HASP, and applicable JSAs
127. Equipment Preparation	59. Slips/ Trips/ Falls 60. Physical hazards including strains and hand injury 61. Traffic	1. Be alert / Follow good housekeeping procedures 2. Use proper lifting techniques / Do not lift heavy loads without assitance / Avoid putting hands near pinch points / Wear proper PPE (leather gloves). 3. Use cones, signs, flags or other traffic control devices
3. Air Knife	49. Motion – Heavy Equipment Movement 50. High noise levels 51. Airborne particles and debris 52. Impact to subsurface lines	24. Do not allow personnel to stand within the swing radius of equipment, arms/booms, when equipment is in use; Stay clear of operating equipment when in motion; When approaching equipment, approach should be made from the front ensuring eye contact is made with operator. 25. Wear hearing protection required when working around operating equipment if levels are suspected to be >85 dBA 26. Use water as necessary to control dust in area; Use containment unit to contain particles and dust; PPE to include face shield or safety glasses with side shields, dust mask. 27. Verify underground features have been marked and points are 5' or greater from identified features; Ensure excavation is approved by competent person

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
4. Vaccuum Truck Extraction	1. Pre-truck inspection 2. High noise levels 3. Physical hazards including back strain and hand injury	1. Inspect the vehicle and all associated equipment prior to operating the vaccuum. Ensure all hoses and connections are properly secured. 2. Wear hearing protection required when working around operating equipment if levels are suspected to be >85 dBA 3. Hold Vacuum hose using arms and shoulders. Do not over exert, keep back in neutral position, bend at knees. Request assistance when needed. Ensure proper PPE is worn at all times, including a face shield.
5. Slide Hammer	1. Physical hazards including back strain and Hand or eye injury 2. Impact to subsurface lines	1. Hold slide hammer using arms and shoulders. Apply force to slide hammer without over exerting. Keep away from slide hammer recoil. Keep back in neutral position and bend at the knees. Request assistance when needed. Ensure proper PPE is worn at all times, including eye glasses with side shields. 2. Verify underground features have been marked and points are 5' or greater from identified features; Ensure excavation is approved by competent person
6. Hand Auger and/or Shovel (if applicable)	172. Physical hazards including back strain and hand injury	1. Twist hand auger using arms and shoulders. Operate shovel using arms and legs. Do not over exert, Keep back in neutral position, bend at the knees. Request assistance when needed. Remove auger or shovel from ground keeping back in neutral position and lift using legs.
7. Borehole Triangulation (using any combination of the aforementioned job steps, as needed)	1. Inconclusive subsurface utility line clearance	1. Verify underground features have been marked and points are 5' or greater from identified features; Ensure excavation is approved by competent person
Additional items.		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		
Ken Bloom		9/24/2025

ATTACHMENT H

TAILGATE SAFETY BRIEFING FORM

LANGAN TAILGATE SAFETY BRIEFING

Date:_____ Time: _____

Leader:_____ Location:_____

Work Task:

_____

_____

SAFETY TOPICS (*provide some detail of discussion points*)

Chemical Exposure Hazards and Control:_____

_____

Physical Hazards and Control: _____

Air Monitoring: _____

PPE: _____

_____

Communications:_____

Safe Work Practices: _____

_____

Emergency Response: _____

Hospital/Medical Center Location: _____

Phone Nos.: _____

Other: _____

FOR FOLLOW-UP (the issues, responsibilities, due dates, etc.**)**

_____

_____

_____

ATTENDEES

PRINT NAME	COMPANY	SIGNATURE

APPENDIX C
QUALITY ASSURANCE PROJECT PLAN

QUALITY ASSURANCE PROJECT PLAN

1480 SHERIDAN BOULEVARD
Bronx, New York
BCP Site No. TBD

Prepared For:

1480 Sheridan Affordable Owner LLC
1865 Palmer Avenue
Larchmont, New York 10538

Prepared By:

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
368 Ninth Avenue, 8th Floor
New York, New York 10001

August 14, 2026
Langan Project No. 170970901

LANGAN

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1.0 PROJECT DESCRIPTION

1.1 INTRODUCTION

This Quality Assurance Project Plan (QAPP) is for the about 64,550-square-foot (1.48-acre) site located at 1480 Sheridan Boulevard in Bronx, New York. The site is identified on the Bronx Borough Tax Map as Block 3017, Lot 29. The site is currently improved with part of the East End Parking Corporation commercial building in the southwestern part of the site. The remainder of the site is an asphalt-, pavers-, and concrete-paved parking lot occupied by a truck depot and parking lot operated by East End Parking Corporation with a garage structure in the northeastern part of the site.

This QAPP specifies analytical methods to be used to ensure that data collected during the Remedial Investigation (RI) is precise, accurate, representative, comparable, complete, and meets the sensitivity requirements of the project.

1.2 PROJECT OBJECTIVES

The objective of the scope of work is to investigate and characterize the nature and extent of environmental impacts at the site and to provide sufficient information to evaluate remedial alternatives and threats to human health and the environment, as required per the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

1.3 SCOPE OF WORK

The scope of work covered in this QAPP is detailed in the Remedial Investigation Work Plan (RIWP). In general, the RIWP proposes soil boring installation and sampling, groundwater monitoring well installation and sampling, sub-slab vapor, and indoor air sampling. A dust, odor, and vapor control and monitoring plan will be implemented during ground intrusive activities. The following investigation activities will be performed as part of the RIWP:

- Advance 20 soil borings to either the first underlying depth interval without evidence of impacts or to about 15 feet bgs, whichever is deeper.
- Collect up to three samples from each soil boring for a total of up to 60 soil samples (plus QA/QC samples) for laboratory analysis.
- Install and develop up to five permanent monitoring wells.
- Collect one groundwater sample from each of the permanent groundwater monitoring wells for a total of five groundwater samples (plus QA/QC samples) for laboratory analysis.
- Survey and gauge monitoring wells to establish groundwater elevations and flow direction, and to evaluate the potential presence of non-aqueous phase liquid (NAPL).

- Develop a groundwater contour map.
- Install five sub-slab vapor points at co-located soil boring and monitoring well locations.
- Collect five sub-slab vapor samples, one indoor air sample, and one ambient air sample for laboratory analysis.
- Implementation of a community air monitoring plan (CAMP).

A plan showing the proposed sample locations is included as Figure 7 of the RIWP.

2.0 DATA QUALITY OBJECTIVES AND PROCESS

Data Quality Objectives (DQO) are qualitative and quantitative statements to help ensure that data of known and appropriate quality are obtained during the project. The quality of the data must be sufficient to fulfill the overall objective of the RI. The overall objective is to investigate and characterize the nature and extent of environmental impacts at and emanating from the site and to provide sufficient information to evaluate remedial alternatives, as required. The RIWP specifies the intended use of the data, the required constituents of interest, limits of detection, level of data assessment, and data deliverables. All data shall be defined as definitive data.

The DQO process is an iterative process where various options for implementing a project are explored, dissected, and recombined. The feasibility and costs of various options are estimated, and then the most advantageous option is selected and developed into project work plans that will be implemented.

DQOs for sampling activities are determined by evaluating five factors:

- Data needs and uses: The types of data required and how the data will be used after it is obtained.
- Parameters of Interest: The types of chemical or physical parameters required for the intended use.
- Level of Concern: Levels of constituents, which may require remedial actions or further investigations, based on comparison to Title 6 of the Official Compilation of New York Codes, Rules and Regulations Part 375 NYSDEC Unrestricted Use Soil Cleanup Objectives for soil samples and to the October 2006 (updated in May 2017) New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York Air Guideline Values and Decision Matrices for soil vapor samples.
- Required Analytical Level: The level of data quality, data precision, and QA/QC documentation required for chemical analysis.
- Required Detection Limits: The detection limits necessary based on the above information.

The investigation will be evaluated using the DQO process on an individual, task-specific basis. DQOs and the required level of review will be determined during this process.

3.0 PROJECT ORGANIZATION

Lagan will arrange data analysis and reporting tasks related to the site sampling. The analytical services will be performed by an Environmental Laboratory Approval Program (ELAP)-certified laboratory. Data validation services will be performed by approved data validation contractor(s).

The required sampling will be conducted by Langan; the analytical services will be performed by Pace Analytical, Inc. of Westborough, Massachusetts (NYSDOH ELAP certification number 11148). Data validation services will be performed by Joseph Conboy of Langan.

Resumes for Langan personnel can be found in Attachment B; key contacts for this project are as follows:

1480 Sheridan Affordable Owner LLC:	Brian Reardon Telephone: (914) 323-8493
Langan Project Manager:	Kimberly Semon, PE Telephone: (212) 479-5486
Langan Field Team Leader:	Caroline Devin Telephone: (212) 479-5743
Langan Health & Safety Officer:	Tony Moffa, CHMM Telephone: (215) 491-6500
Langan Quality Assurance Manager:	Brian Gochenaur, QEP Telephone: (212) 479-5479
Langan Data Validator:	Joseph Conboy Telephone: (609) 282-8055
Laboratory Representative:	Pace Analytical, Inc. Ben Rao Telephone: (201) 812-2633

4.0 QUALITY ASSURANCE OBJECTIVES FOR COLLECTION OF DATA

The overall quality assurance objective is to develop and implement procedures for sampling, laboratory analysis, field measurements, and reporting that will provide data of sufficient quality to evaluate the engineering controls on the site. The sample set, chemical analysis results, and interpretations must be based on data that meet or exceed quality assurance objectives established for the site. Quality assurance objectives are usually expressed in terms of precision, accuracy or bias, representativeness, completeness, comparability, and sensitivity of analysis. Variances from the quality assurance objectives at any stage of the investigation will result in the implementation of appropriate corrective measures and an assessment of the impact of corrective measures on the usability of the data.

4.1 PRECISION

Precision is a measure of the degree to which two or more measurements are in agreement. Field precision is assessed through the collection and measurement of field duplicates. Laboratory precision and sample heterogeneity also contribute to the uncertainty of field duplicate measurements. This uncertainty is taken into account during the data assessment process. The following field duplicate precision criteria will be applied:

Aqueous and Canister Air Samples

- Results greater than 5 times the laboratory reporting limit (RL) must have a relative percent difference (RPD) $\leq 30\%$.
- Results less than 5 times the RL must have an absolute difference $\leq \pm$RL.

Soil Samples

- Results greater than 5 times the laboratory RL must have a RPD $\leq 50\%$.
- Results less than 5 times the RL must have an absolute difference $\leq 2\times \pm$RL.

Soil Vapor Samples

- Results greater than 5 times the laboratory RL must have a RPD $\leq 50\%$.
- Results less than 5 times the RL must have an absolute difference $\leq 2\times \pm$RL.

RLs and method detection limits (MDL) are provided in Attachment A.

Laboratory precision is assessed through the analysis of matrix spike/matrix spike duplicates (MS/MSD), laboratory control sample/laboratory control sample duplicates (LCS/LCSD) and subsequent calculation of RPD. For outliers, if additional sample volume is present, the MS/MSD

should be reanalyzed and the RPD recomputed. If additional volume is not present, an evaluation will be performed to determine the extent of potential matrix interference.

4.2 ACCURACY

Accuracy is the measurement of the reproducibility of the sampling and analytical methodology. It should be noted that precise data may not be accurate data. For the purpose of this QAPP, bias is defined as the constant or systematic distortion of a measurement process, which manifests itself as a persistent positive or negative deviation from the known or true value. This may be due to (but not limited to) improper sample collection, sample matrix, poorly calibrated analytical or sampling equipment, or limitations or errors in analytical methods and techniques.

Accuracy in the field is assessed through the use of field and trip blanks and through compliance to all sample handling, preservation, and holding time requirements. All field and trip blanks should be non-detect when analyzed by the laboratory. Any contaminant detected in an associated field blank will be evaluated against laboratory blanks (preparation or method) and evaluated against field samples collected on the same day to determine potential for bias.

Laboratory accuracy is assessed by evaluating the percent recoveries of MS/MSD samples, LCS/LCSD, surrogate compound recoveries, internal standard area counts, initial and continuing calibrations, and the results of method, initial and continuing calibration blanks. MS/MSD, LCS/LCSD, and surrogate percent recoveries will be compared to either method-specific control limits or laboratory-derived control limits. Sample volume permitting, samples displaying outliers should be reanalyzed. All associated method blanks should be non-detect when analyzed by the laboratory.

4.3 REPRESENTATIVENESS

Representativeness expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition within a defined spatial and/or temporal boundary. Representativeness is dependent upon the adequate design of the sampling program and will be satisfied by ensuring that the scope of work is followed and that specified sampling and analysis techniques are used. This is performed by following applicable standard operating procedures (SOP) and this QAPP. All field technicians will be given copies of appropriate documents prior to sampling events and are required to read, understand, and follow each document as it pertains to the tasks at hand.

Representativeness in the laboratory is ensured by compliance with nationally-recognized analytical methods, meeting sample holding times, and maintaining sample integrity while the samples are in the laboratory's possession. This is performed by following all applicable analytical

methods, laboratory-issued SOPs, the laboratory's Quality Assurance Manual, and this QAPP. The laboratory is required to be properly certified and accredited.

4.4 COMPLETENESS

Laboratory completeness is the ratio of total number of samples analyzed and verified as acceptable compared to the number of samples submitted to the fixed-base laboratory for analysis, expressed as a percent. Three measures of completeness are defined:

- Sampling completeness, defined as the number of valid samples collected relative to the number of samples planned for collection;
- Analytical completeness, defined as the number of valid sample measurements relative to the number of valid samples collected; and
- Overall completeness, defined as the number of valid sample measurements relative to the number of samples planned for collection.

Soil, groundwater and soil vapor data will meet a 90% completeness criterion. If the criterion is not met, sample results will be evaluated for trends in rejected and unusable data. The effect of unusable data required for a determination of compliance will also be evaluated.

4.5 COMPARABILITY

Comparability is an expression of the confidence with which one data set can be compared to another. Comparability is dependent upon the proper design of the sampling program and will be satisfied by ensuring that the sampling plan is followed and that sampling is performed according to the SOPs or other project-specific procedures. Analytical data will be comparable when similar sampling and analytical methods are used as documented in the QAPP. Comparability will be controlled by requiring the use of specific nationally-recognized analytical methods and requiring consistent method performance criteria. Comparability is also dependent on similar quality assurance objectives. Previously collected data will be evaluated to determine whether they may be combined with contemporary data sets.

4.6 SENSITIVITY

Sensitivity is the ability of the instrument or method to detect target analytes at the levels of interest. The project manager will select, with input from the laboratory and quality assurance personnel, sampling and analytical procedures that achieve the required levels of detection and quality control acceptance limits that meet established performance criteria. Concurrently, the project manager will select the level of data assessment to ensure that only data meeting the project DQOs are used in decision-making.

Field equipment will be used that can achieve the required levels of detection for analytical measurements in the field. In addition, the field sampling staff will collect and submit full volumes of samples as required by the laboratory for analysis, whenever possible. Full volume aliquots will help ensure achievement of the required limits of detection and allow for reanalysis if necessary.

Analytical methods and quality assurance parameters associated with the sampling program are presented in Attachment C. The frequency of associated field blanks, trip blanks and duplicate samples will be based on the recommendations listed in DER-10, and as described in Section 5.3.

Site-specific MS and MSD samples will be prepared and analyzed by the analytical laboratory by spiking an aliquot of submitted sample volume with analytes of interest. A MS/MSD analysis will be analyzed at a rate of 1 out of every 20 samples, or one per analytical batch. MS/MSD samples are only required for soil and groundwater samples.

5.0 SAMPLE COLLECTION AND FIELD DATA ACQUISITION PROCEDURES

Soil and groundwater sampling will be conducted in accordance with the established NYSDEC protocols contained in DER-10/Technical Guidance for Site Investigation and Remediation (May 2010). Sub-slab and soil vapor sampling will be conducted in accordance with NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006). The following sections describe procedures to be followed for specific tasks.

5.1 FIELD DOCUMENTATION PROCEDURES

Field documentation procedures will include summarizing field data in field books and proper sample labeling. These procedures are described in the following sections.

5.1.1 Field Data and Notes

Field notebooks contain the documentary evidence regarding procedures conducted by field personnel. Hard cover, bound field notebooks will be used because of their compact size, durability, and secure page binding. The pages of the notebook will not be removed.

Entries will be made in waterproof, permanent blue or black ink. No erasures will be allowed. If an incorrect entry is made, the information will be crossed out with a single strike mark and the change initialed and dated by the team member making the change. Each entry will be dated. Entries will be legible and contain accurate and complete documentation of the individual or sampling team's activities or observations made. The level of detail will be sufficient to explain and reconstruct the activity conducted. Each entry will be signed by the person(s) making the entry.

The following types of information will be provided for each sampling task, as appropriate:

- Project name and number
- Reasons for being on-site or taking the sample(s)
- Date and time of activity
- Sample identification number(s)
- Geographical location of sampling points with references to the site, other facilities or a map coordinate system; sketches will be made in the field logbook when appropriate
- Physical location of sampling locations such as depth below ground surface

- Description of the method of sampling including procedures followed, equipment used and any departure from the specified procedures
- Description of the sample including physical characteristics, odor, etc.
- Readings obtained from health and safety equipment
- Weather conditions at the time of sampling and previous meteorological events that may affect the representative nature of a sample
- Photographic information including a brief description of what was photographed, the date and time, the compass direction of the picture and the number of the picture on the camera
- Other pertinent observations such as the presence of other persons on the site, actions by others that may affect performance of site tasks, etc.
- Names of sampling personnel and signature of persons making entries

Field records will also be collected on field data sheets including boring logs, which will be used for geologic and drilling data during soil boring activities. Field data sheets will include the project-specific number and stored in the field project files when not in use. At the completion of the field activities, the field data sheets will be maintained in the central project file.

5.1.2 Sample Labeling

Each sample collected will be assigned a unique identification number and abbreviation in accordance with the sample nomenclature guidance provided in the following table and the Standard Operating Procedure provided in Attachment D.

Sample Nomenclature Summary	
AA	Ambient Air
IA	Indoor Air
DUP	Field Duplicate
EB	Environmental Boring
LB	Langan Boring
SB	Soil Boring
FB	Field Blank
MW	Monitoring Well
SV	Soil Vapor
SSV	Sub-Slab Soil Vapor
TB	Trip Blank
(#-#)	Depth Interval
MMDDYY	Date of Sampling

Each sample container will have a sample label affixed to the outside with the date and time of sample collection and project name. In addition, the label will contain the sample identification number, analysis required and chemical preservatives added, if any. All documentation will be completed in waterproof ink.

5.2 EQUIPMENT CALIBRATION AND PREVENTATIVE MAINTENANCE

A photoionization detector (PID) will be used during the sampling activities to evaluate work zone action levels, screen soil samples, and collect monitoring well headspace readings. Field calibration and/or field checking of the PID will be the responsibility of the field team leader and the Site Health & Safety Officer, and will be accomplished by following the procedures outlined in the operating manual for the instrument. At a minimum, field calibration and/or field equipment checking will be performed once daily, prior to use. Field calibration will be documented in the field notebook. Entries made into the logbook regarding the status of field equipment will include the following information:

- Date and time of calibration
- Type of equipment serviced and identification number (such as serial number)
- Reference standard used for calibration
- Calibration and/or maintenance procedure used
- Other pertinent information

A water quality meter (Horiba U-52 or similar) will be used during purging of groundwater to measure pH, specific conductance, temperature, dissolved oxygen, turbidity and oxidation-reduction-potential (ORP), every five minutes, or, depending on pump flow rate, after at least one full volume of the water quality meter flow through cell has passed through. A portable turbidity meter (LaMotte or similar) may also be used to measure turbidity. Water-quality meters should be calibrated and the results documented before use each day using standardized field calibration procedures and calibration checks.

Equipment that fails calibration or becomes inoperable during use will be removed from service and segregated to prevent inadvertent utilization. The equipment will be properly tagged to indicate that it is out of calibration. Such equipment will be repaired and recalibrated to the manufacturer's specifications by qualified personnel. Equipment that cannot be repaired will be replaced.

Off-site calibration and maintenance of field instruments will be conducted as appropriate throughout the duration of project activities. All field instrumentation, sampling equipment and

accessories will be maintained in accordance with the manufacturer's recommendations and specifications and established field equipment practice. Off-site calibration and maintenance will be performed by qualified personnel. A logbook will be kept to document that established calibration and maintenance procedures have been followed. Documentation will include both scheduled and unscheduled maintenance.

5.3 SAMPLE COLLECTION

Soil Samples

Soil samples will be visually classified and field screened using a PID to assess potential impacts from VOCs and for health and safety monitoring. Soil samples collected for analysis of VOCs will be collected using either En Core® or Terra Core® sampling equipment. For analysis of non-volatile parameters, samples will be homogenized and placed into glass jars. Samples will be collected with unused sterile sampling scoops or spoons and homogenized in unused sterile polyethylene zipper bags. After collection, all sample jars will be capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they are transferred to the laboratory for analysis, in accordance with the procedures outlined in Sections 5.4 and 5.6. Analysis and/or extraction and digestion of collected soil samples will meet the holding times required for each analyte as specified in Attachment C. In addition, analysis of collected soil samples will meet all quality assurance criteria set forth by this QAPP and DER-10.

Groundwater Samples

Groundwater sampling will be conducted using low-flow sampling procedures following United States Environmental Protection Agency (USEPA) guidance ("Low Stress [low flow] Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells", EQASOP-GW4, dated September 19, 2017).

During purging, field parameters should be measured, including: water level drawdown, purge rate, pH, specific conductance, temperature, dissolved oxygen, turbidity and ORP, every five minutes using a water quality meter (YSI 6820 or similar) and a depth-to-water interface probe that should be decontaminated between wells. Samples should generally not be collected until the field parameters have stabilized. Field parameters will be considered stable once three sets of measurements are within ±0.1 standard units for pH, ±3% for conductivity and temperature, ±10 millivolts for ORP, and ±10% for turbidity and dissolved oxygen. Purge rates should be adjusted to keep the drawdown in the well to less than 0.3 feet, as practical. Additionally, an attempt should be made to achieve a stable turbidity reading of less than 10 Nephelometric Turbidity Units (NTU) prior to sampling. If the turbidity reading does not stabilize at reading of less than 10 NTU for a given well, then both filtered and unfiltered samples should be collected from that well. If necessary, field filtration should be performed using a 0.45 micron disposable in-line

filter. Groundwater samples should be collected after parameters have stabilized as noted above or the readings are within the precision of the meter. Deviations from the stabilization and drawdown criteria, if any, should be noted on the sampling logs.

Samples should be collected directly into laboratory-supplied jars. After collection, all sample jars will be capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they are transferred to the laboratory for analysis, in accordance with the procedures outlined in Sections 5.4 and 5.6. Analysis and/or extraction and digestion of collected groundwater samples will meet the holding times required for each analyte as specified in Attachment C. In addition, analysis of collected groundwater samples will meet all quality assurance criteria set forth by this QAPP and DER-10.

Soil Vapor and Ambient Air Samples

Prior to soil vapor and ambient air sample collection, a pre-sampling inspection will be conducted to document chemicals and potential subsurface pathways at the site. The pre-sampling inspection will assess the potential for impacts from any chemical or petroleum storage within the on-site buildings. Sub-slab soil vapor, indoor air and ambient air samples will be collected into laboratory-supplied, batch certified-clean Summa® canisters calibrated for a sampling rate of eight hours. The pressure gauges on each calibrated flow controller should be monitored throughout sample collection. Sample collection should be stopped when the pressure reading reaches -4 mmHg.

Emerging Contaminant Samples

Soil and groundwater samples collected for analysis of per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane will be collected in accordance with the specialized protocol outlined in this section and the *Sampling, Analysis, and Assessment of Per- and Polyfuoroalkyl Substances (PFAS) under NYSDEC's Part 375 Remedial Programs*, issued by the NYSDEC in April 2023. Soil and groundwater samples collected from select sample locations will be analyzed for 1,4-dioxane by USEPA Method 8270 and for PFAS by USEPA Method 1633.

Soil samples will be homogenized and placed into glass jars. Samples will be collected with unused sterile sampling scoops or spoons. After collection, all sample jars will be capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they are transferred to the laboratory for analysis.

Groundwater sampling will be performed using low-flow sampling procedures following USEPA guidance ("Low Stress [low flow] Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells", January 19, 2017). Groundwater samples will be collected using a submersible pump fitted with dedicated, non-Teflon high-density polyethylene

(HDPE) tubing and using low-flow purging techniques to minimize drawdown. A Horiba U-52 (or similar) will be used to monitor water quality parameters (pH, conductivity, temperature, dissolved oxygen, ORP, and turbidity. Groundwater samples will be collected after the parameters stabilized within about 10 percent of consecutive values, to the extent practical, and turbidity is below 10 NTU.

Food and beverages will be prohibited near the sampling equipment. Additionally, no cosmetics, moisturizers, hand cream, sun screen or clothing materials containing Gore-Tex or Tyvek will be worn during sampling. Non-disposable components of the pump will be decontaminated with Alconox and water. Field personnel will wear nitrile gloves while collecting and handing soil and groundwater samples.

Sample Field Blanks, Equipment Blanks, Trip Blanks and Duplicates

Field blanks will be collected for quality assurance purposes at a rate of one per 20 investigative samples per matrix (soil and groundwater only). Field blanks will be obtained by pouring laboratory-demonstrated analyte-free water on or through a decontaminated sampling device following use and implementation of decontamination protocols. The water will be collected off of the sampling device into a laboratory-provided sample container for analysis. Field blank samples will be analyzed for the complete list of analytes on the day of sampling. To assess contamination resulting from sample transport, trip blanks will be collected at a rate of one per day if soil or groundwater samples are analyzed for volatile organic compounds (VOC) during that day. Field blanks and equipment blanks collected for PFAS will be collected at frequency of one per 20 investigative samples per matrix.

Equipment blanks will be collected for quality assurance purposes at a rate of one per day per matrix for soil and groundwater PFAS samples. Field blanks will be obtained by pouring laboratory-demonstrated PFAS-free water on or through a decontaminated sampling device following use and implementation of decontamination protocols. The water will be collected off of the sampling device into a laboratory-provided sample container for analysis.

Duplicate soil and groundwater samples will be collected and analyzed for quality assurance purposes. Duplicate samples will be collected at a frequency of 1 per 20 investigative samples per matrix and will be submitted to the laboratory as "blind" samples. If less than 20 samples are collected during a particular sampling event, one duplicate sample will be collected.

5.4 SAMPLE CONTAINERS AND HANDLING

Certified, commercially clean sample containers will be obtained from the analytical laboratory. If soil samples or groundwater are being collected, the laboratory will also prepare and supply the required trip blanks and field blank sample containers and reagent preservatives. Sample bottle

containers, including the field blank containers, will be placed into plastic coolers by the laboratory. These coolers will be received by the field sampling team within 24 hours of their preparation in the laboratory. Prior to the commencement of field work, Langan field personnel will fill the plastic coolers with ice in Ziploc® bags (or equivalent) to maintain a temperature of 4° ±2° C.

Soil and/or groundwater samples collected in the field for laboratory analysis will be placed directly into the laboratory-supplied sample containers. Samples will then be placed and stored on-ice in laboratory provided coolers until shipment to the laboratory. The temperature in the coolers containing samples and associated field blanks will be maintained at a temperature of 4°±2°C while on-site and during sample shipment to the analytical laboratory.

Soil and groundwater sampling for PFAS will be collected in accordance with USEPA Method 1633 Field Sampling Guidelines. PFAS samples will be collected first in HDPE/polypropylene containers using sampling equipment either made with stainless steel, HDPE, or polypropylene. Food and beverages will be prohibited near the sampling equipment. Additionally, no cosmetics, moisturizers, hand cream, sun screen or clothing materials containing Gore-Tex™ or Tyvek® will be worn during sampling.

Possession of samples collected in the field will be traceable from the time of collection until they are analyzed by the analytical laboratory or are properly disposed. Chain-of-custody procedures, described in Section 5.9, will be followed to maintain and document sample possession. Samples will be packaged and shipped as described in Section 5.6.

5.5 SAMPLE PRESERVATION

Sample preservation measures will be used in an attempt to prevent sample decomposition by contamination, degradation, biological transformation, chemical interactions and other factors during the time between sample collection and analysis. Preservation will commence at the time of sample collection and will continue until analyses are performed. Should chemical preservation be required, the analytical laboratory will add the preservatives to the appropriate sample containers before shipment to the office or field. Samples will be preserved according to the requirements of the specific analytical method selected, as shown in Attachment C.

5.6 SAMPLE SHIPMENT

5.6.1 Packaging

Soil and groundwater sample containers will be placed in plastic coolers. Ice in Ziploc® bags (or equivalent) will be placed around sample containers. Cushioning material will be added around the sample containers if necessary. Chains-of-custody and other paperwork will be placed in a Ziploc® bag (or equivalent) and placed inside the cooler. The cooler will be taped closed and

custody seals will be affixed to one side of the cooler at a minimum. If the samples are being shipped by an express delivery company (e.g. FedEx) then laboratory address labels will be placed on top of the cooler.

5.6.2 Shipping

Standard procedures to be followed for shipping environmental samples to the analytical laboratory are outlined below.

- All environmental samples will be transported to the laboratory by a laboratory-provided courier under the chain-of-custody protocols described in Section 5.9.
- Prior notice will be provided to the laboratory regarding when to expect shipped samples. If the number, type or date of shipment changes due to site constraints or program changes, the laboratory will be informed.

5.7 DECONTAMINATION PROCEDURES

5.7.1 Decontamination General Sample Collection

Decontamination procedures will be used for non-dedicated sampling equipment. Decontamination of field personnel is discussed in the site-specific sample Health and Safety Plan (HASP) included in Appendix A of the RIWP. Field sampling equipment that is to be reused will be decontaminated in the field in accordance with the following procedures:

1. Laboratory-grade glassware detergent and tap water scrub to remove visual contamination
2. Generous tap water rinse
3. Distilled/de-ionized water rinse

5.7.2 Decontamination for PFAS Sample Collection

In addition to general decontamination procedures are outlined in Section 5.7.1, sampling equipment will be thoroughly decontaminated before mobilization and between sample locations. Field sampling equipment, including water level indicators and other non-dedicated equipment, requires cleaning between uses. Non-dedicated equipment used for PFAS sampling will be rinsed using a three bucket rinse procedure. An about 3-gallon solution of decontamination fluid consisting of Alconox or Citranox and deionized (DI) water will be prepared in a 5-gallon bucket for the first equipment rinse. A second 5-gallon bucket will be filled with about 3 gallons of DI water for the second rinse. A third 5-gallon bucket will be filled with about 3 gallons of DI water for the final rinse. Powderless nitrile (non-latex) gloves will be donned during the handling of sampling equipment and sample containers. The Safety Data Sheets of detergents used in

decontamination procedures will be reviewed to ensure fluoro-surfactants and 1,4-dioxane are not listed as ingredients. Laboratory-verified PFAS-free water will be used as the final rinse during decontamination of sampling equipment

5.8 RESIDUALS MANAGEMENT

Debris (e.g., paper, plastic and disposable personal protective equipment) will be collected in plastic garbage bags and disposed of as non-hazardous industrial waste. Soil cuttings with no apparent staining, odors, or elevated PID readings will be used to backfill boring holes. Soil to be disposed off-site will be placed in 55-gallon, UN/Department of Transportation (DOT) approved drums. Decontamination and well development/purging fluids will be placed in DOT-approved fluid drums with closed tops. All drums will be properly labeled, sealed, and characterized as necessary.

If initial analytical data is insufficient to gain disposal facility acceptance, waste characterization samples will be analyzed for parameters that are typically required by disposal facilities, such as target compounds list (TCL) VOCs, semivolatile organic compounds (SVOCs), Resource Conservation and Recovery Act (RCRA) metals, polychlorinated biphenyls (PCBs), pesticides, herbicides, Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP SVOCs, TCLP metals, ignitability, corrosivity, reactivity, and paint filter. Additional sampling and analyses may be required based on the selected disposal facility.

Samples will be collected in accordance with the selected disposal facility's requirements and will be collected to be representative of the material requiring disposal at a frequency consistent with disposal facility requirements. It is anticipated that all drummed material will be transported off-site and disposed of at a permitted facility.

5.9 CHAIN OF CUSTODY PROCEDURES

A chain-of-custody protocol has been established for collected samples that will be followed during sample handling activities in both field and laboratory operations. The primary purpose of the chain-of-custody procedures is to document the possession of the samples from collection through shipping, storage and analysis to data reporting and disposal. Chain-of-custody refers to actual possession of the samples. Samples are considered to be in custody if they are within sight of the individual responsible for their security or locked in a secure location. Each person who takes possession of the samples, except the shipping courier, is responsible for sample integrity and safe keeping. Chain-of-custody procedures are provided below:

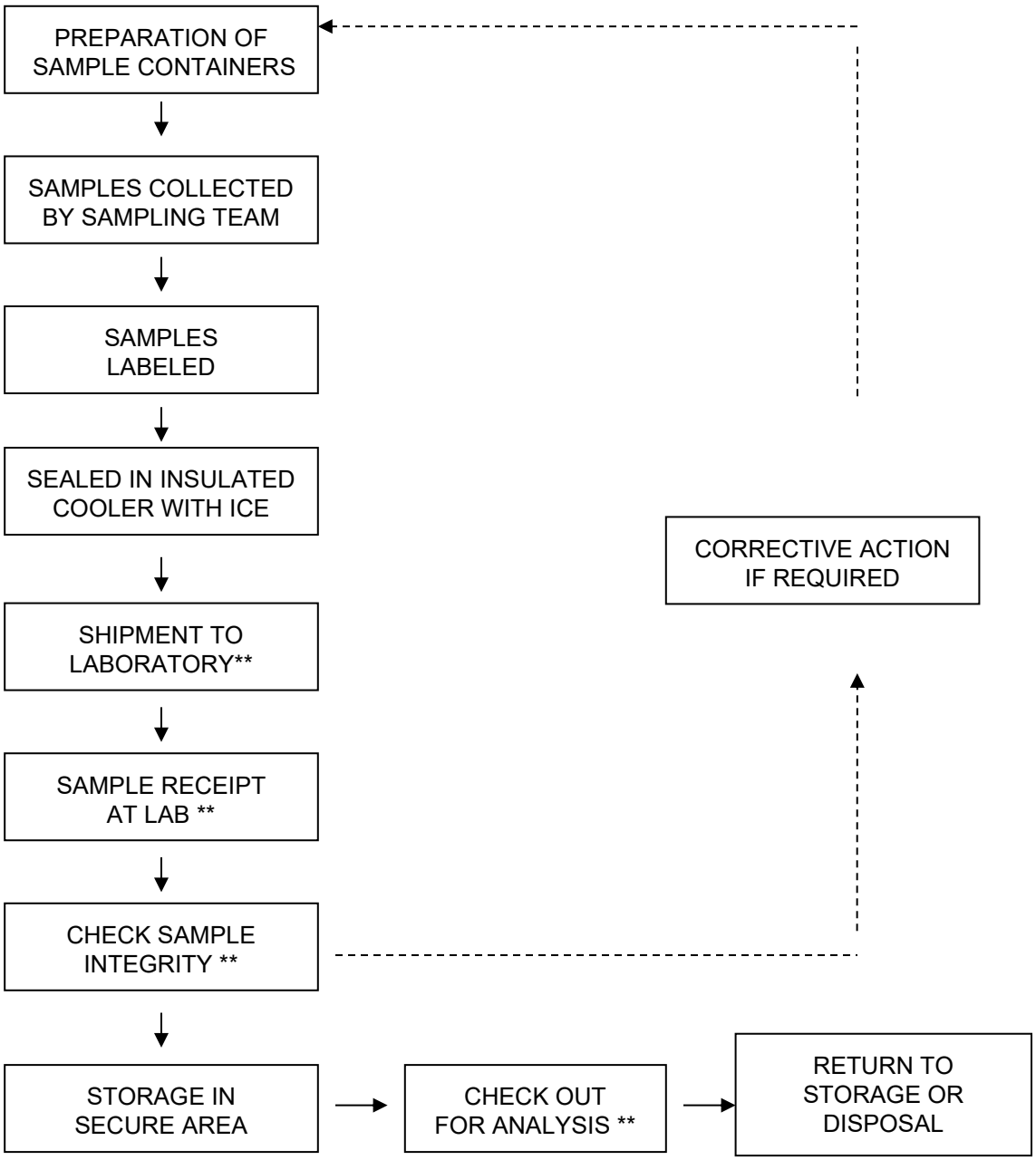
- Chain-of-custody will be initiated by the laboratory supplying the pre-cleaned and prepared sample containers. Chain-of-custody forms will accompany the sample containers.

- Following sample collection, the chain-of-custody form will be completed for the sample collected. The sample identification number, date and time of sample collection, analysis requested and other pertinent information (e.g., preservatives) will be recorded on the form. All entries will be made in waterproof, permanent blue or black ink.
- Langan field personnel will be responsible for the care and custody of the samples collected until the samples are transferred to another party, dispatched to the laboratory, or disposed. The sampling team leader will be responsible for enforcing chain-of-custody procedures during field work.
- When the form is full or when all samples have been collected that will fit in a single cooler, the sampling team leader will check the form for possible errors and sign the chain-of-custody form. Any necessary corrections will be made to the record with a single strike mark, dated, and initialed.

When soil and groundwater samples are collected, sample coolers will be accompanied by the chain-of-custody form, sealed in a Ziploc® bag (or equivalent) and placed on top of the samples or taped to the inside of the cooler lid. If applicable, a shipping bill will be completed for each cooler and the shipping bill number recorded on the chain-of-custody form.

Samples will be packaged for shipment to the laboratory with the appropriate chain-of-custody form. A copy of the form will be retained by the sampling team for the project file and the original will be sent to the laboratory with the samples. Bills of lading will also be retained as part of the documentation for the chain-of-custody records, if applicable. When transferring custody of the samples, the individuals relinquishing and receiving custody of the samples will verify sample numbers and condition and will document the sample acquisition and transfer by signing and dating the chain-of-custody form. This process documents sample custody transfer from the sampler to the analytical laboratory. A flow chart showing a sample custody process is included as Figure 5.1, and an example chain-of-custody form for soil and groundwater samples is included as Figure 5.2.

Figure 5.1 Sample Custody



** REQUIRES SIGN-OFF ON CHAIN-OF-CUSTODY FORM

Figure 5.2 Sample Chain-of-Custody Form – Soil and Groundwater Samples

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 9 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab

ALPHA Job #

Project Information
Project Name:
Project Location:
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Client Information
Client:
Address:
Phone:
Fax:
Email:

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials								Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

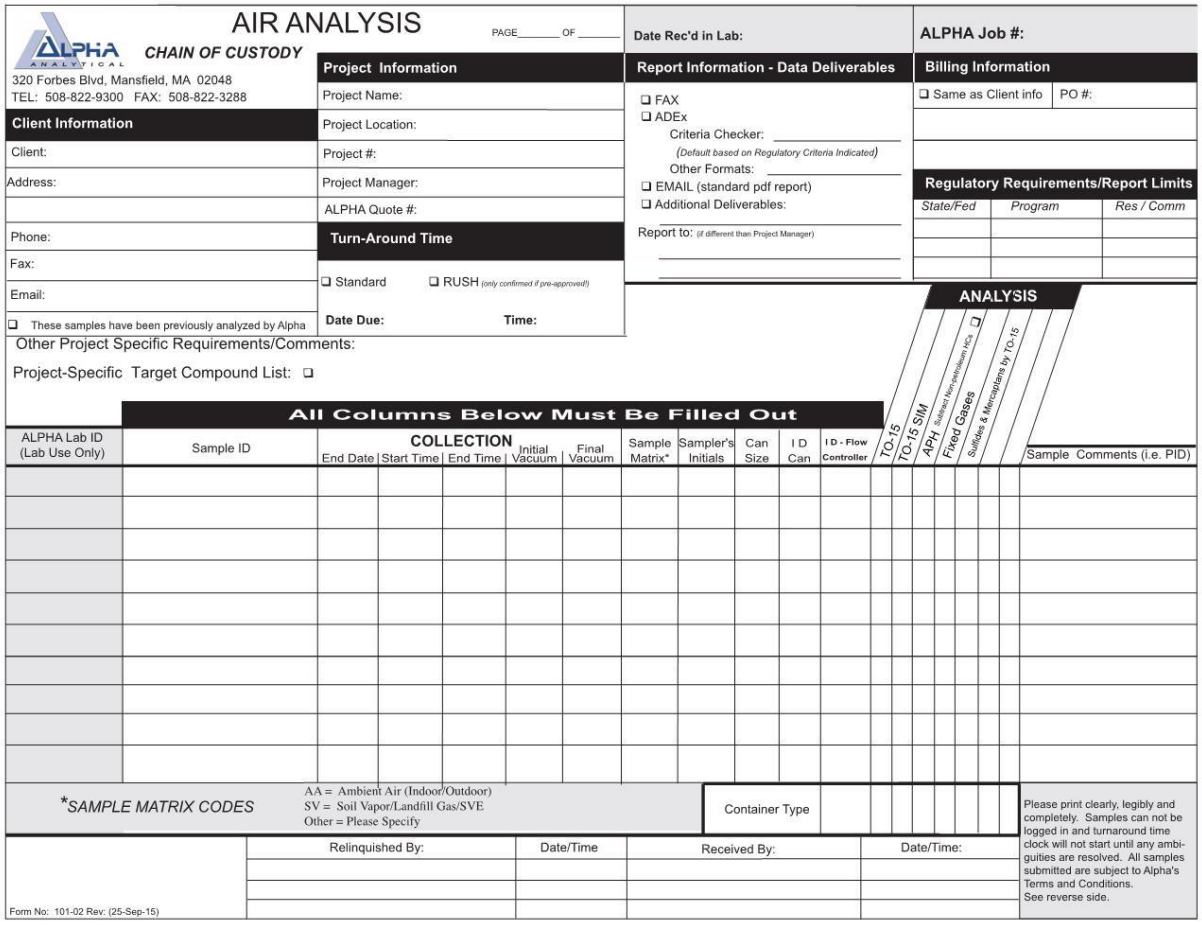
Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Figure 5.3 Sample Chain-of-Custody Form – Soil Vapor and Ambient Air Samples



AIR ANALYSIS — CHAIN OF CUSTODY

PAGE_____ OF _____

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #:

Client Information
Client:
Address:
Phone:
Fax:
Email:
❑ These samples have been previously analyzed by Alpha

Project Information
Project Name:
Project Location:
Project #:
Project Manager:
ALPHA Quote #:

Turn-Around Time
❑ Standard ❑ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables
❑ FAX
❑ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
❑ EMAIL (standard pdf report)
❑ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information
❑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ❑

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Sulfate/Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	❑	Sample Comments (i.e. PID)

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:

Form No: 101-02 Rev: (25-Sep-15)

Laboratory chain-of-custody will be maintained throughout the analytical processes as described in the laboratory's Quality Assurance Manual. The analytical laboratory will provide a copy of the chain-of-custody in the analytical data deliverable package. The chain-of-custody becomes the permanent record of sample handling and shipment.

5.10 LABORATORY SAMPLE STORAGE PROCEDURES

The subcontracted laboratory will use a laboratory information management system to track and schedule samples upon receipt by the analytical laboratories. Any sample anomalies identified during sample log-in must be evaluated on individual merit for the impact upon the results and the data quality objectives of the project. When irregularities do exist, the environmental consultant must be notified to discuss recommended courses of action and documentation of the issue must be included in the project file.

For samples requiring thermal preservation, the temperature of each cooler will be immediately recorded. Each sample and container will be assigned a unique laboratory identification number and secured within the custody room walk-in coolers designated for new samples. Samples will be, as soon as practical, disbursed in a manner that is functional for the operational team. The temperature of all coolers and freezers will be monitored and recorded using a certified temperature sensor. Any temperature excursions outside of acceptance criteria (i.e., below 2°C or above 6°C) will initiate an investigation to determine whether any samples may have been affected. Samples for VOCs will be maintained in satellite storage areas within the VOC laboratory. Following analysis, the laboratory's specific procedures for retention and disposal will be followed as specified in the laboratory's SOPs and/or Quality Assurance Manual.

5.11 SPECIAL CONSIDERATIONS FOR PFAS SAMPLE COLLECTION

Soil and groundwater samples collected for analysis of PFAS will be collected in accordance with the specialized protocol outlined in this section. Soil and groundwater samples collected from select sample locations will be analyzed for 1,4-dioxane by USEPA Method 8270 SIM, and for PFAS by USEPA Method 1633.

The following special considerations apply to the collection of groundwater samples for PFAS analysis to prevent cross-contamination:

- Field equipment will not contain Teflon®
- All sampling material will be made from stainless steel, HDPE, acetate, silicon, or polypropylene
- No waterproof field books will be used
- No plastic clipboards, binders, or spiral hard cover notebooks will be used

- No adhesives will be used
- No sharpies or permanent markers will be used; ball point pens are acceptable
- Aluminum foil will not be used
- PFAS samples will be kept in a separate cooler from other sampling containers
- Coolers will be filled only with regular ice

PFAS compound sampling protocols and laboratory SOP are provided in Attachment E.

5.12 PFAS TARGET ANALYTE LIST

DER has developed a PFAS target analyte list. At minimum, the laboratory will report the following PFAS target compounds:

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonic acids	Perfluorobutanesulfonic acid	PFBS	375-73-5
	Perfluoropentanesulfonic acid	PFPeS	2706-91-4
	Perfluorohexanesulfonic acid	PFHxS	355-46-4
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanesulfonic acid	PFOS	1763-23-1
	Perfluorononanesulfonic acid	PFNS	68259-12-1
	Perfluorodecanesulfonic acid	PFDS	335-77-3
	Perfluorododecanesulfonic acid	PFDoS	79780-39-5
Perfluoroalkyl carboxylic acids	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	PFHpA	375-85-9
	Perfluorooctanoic acid	PFOA	335-67-1
	Perfluorononanoic acid	PFNA	375-95-1
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUnA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTeDA	376-06-7
Per- and Polyfluoroether carboxylic acids	Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
	4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
	Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
	Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
	Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
	4:2 Fluorotelomer sulfonic acid	4:2-FTS	757124-72-4

Fluorotelomer sulfonic acids	6:2 Fluorotelomer sulfonic acid	6:2-FTS	27619-97-2
	8:2 Fluorotelomer sulfonic acid	8:2-FTS	39108-34-4
Fluorotelomer carboxylic acids	3:3 Fluorotelomer carboxylic acid	3:3 FTCA	356-02-5
	5:3 Fluorotelomer carboxylic acid	5:3 FTCA	914637-49-3
	7:3 Fluorotelomer carboxylic acid	7:3 FTCA	812-70-4
Perfluorooctane sulfonamides	Perfluorooctane sulfonamide	PFOSA	754-91-6
	N-methylperfluorooctane sulfonamide	NMeFOSA	31506-32-8
	N-ethylperfluorooctane sulfonamide	NEtFOSA	4151-50-2
Perfluorooctane sulfonamidoacetic acids	N-methylperfluorooctane sulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethylperfluorooctane sulfonamidoacetic acid	N-EtFOSAA	2991-50-6
Perfluorooctane sulfonamide ethanols	N-methylperfluorooctane sulfonamidoethanol	MeFOSE	24448-09-7
	N-ethylperfluorooctane sulfonamidoethanol	EtFOSE	1691-99-2
Ether sulfonic acids	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)	9Cl-PF3ONS	756426-58-1
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	11Cl-PF3OUdS	763051-92-9
	Perfluoro(2-ethoxyethane) sulfonic acid	PFEESA	113507-82-7

6.0 DATA REDUCTION, VALIDATION, AND REPORTING

6.1 INTRODUCTION

Data collected during the field investigation will be reduced and reviewed by the laboratory quality assurance personnel, and a report on the findings will be tabulated in a standard format. The criteria used to identify and quantify the analytes will be those specified for the applicable methods in the USEPA SW-846 and subsequent updates. The data package provided by the laboratory will contain all items specified in the USEPA SW-846 methodology appropriate for the analyses to be performed, and be reported in standard format.

The completed copies of the chain-of-custody records (both external and internal) accompanying each sample from time of initial bottle preparation to completion of analysis shall be attached to the analytical reports.

6.2 DATA REDUCTION

The Analytical Services Protocol (ASP) Category B data packages and an electronic data deliverable (EDD) will be provided by the laboratory after receipt of a complete sample delivery group. The Project Manager will immediately arrange for archiving the results and preparation of result tables. These tables will form the database for assessment of the site contamination condition.

Each EDD deliverable must be formatted using a Microsoft Windows operating system and the NYSDEC data deliverable format for EQuIS. To avoid transcription errors, data will be loaded directly into the ASCII format from the laboratory information management system. If this cannot be accomplished, the consultant should be notified via letter of transmittal indicating that manual entry of data is required for a particular method of analysis. All EDDs must also undergo a quality control check by the laboratory before delivery. The original data, tabulations, and electronic media are stored in a secure and retrievable fashion.

The Project Manager or Task Manager will maintain close contact with the quality assurance reviewer to ensure all non-conformance issues are acted upon prior to data manipulation and assessment routines. Once the quality assurance review has been completed, the Project Manager may direct the Team Leaders or others to initiate and finalize the analytical data assessment.

6.3 DATA VALIDATION

Data validation will be performed in accordance with the USEPA Region 2 SOPs for data validation and USEPA's National Functional Guidelines for Organic and Inorganic Data Review. Tier 1 data validation (the equivalent of USEPA's Stage 2A validation) will be performed to evaluate data quality. Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including:

- Holding times;
- Sample preservation;
- Blank results (method, trip, and field blanks);
- Surrogate recovery compounds and extracted internal standards (as applicable);
- LCS and LCSD recoveries and RPDs;
- MS and MSD recoveries and RPDs;
- Laboratory duplicate RPDs; and
- Field duplicate RPDs

A Data Usability Summary Report (DUSR) will be prepared by the data validator and reviewed by the Quality Assurance Manager before issuance. The DUSR will present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain-of-custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method.

Based on the results of data validation, the validated analytical results reported by the laboratory will be assigned one of the following usability flags:

- "U" - Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank;
- "UJ" - Not detected. Quantitation limit may be inaccurate or imprecise;
- "J" - Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method
- "R" – Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample; and
- No Flag - Result accepted without qualification.

7.0 QUALITY ASSURANCE PERFORMANCE AUDITS AND SYSTEM AUDITS

7.1 INTRODUCTION

Quality assurance audits may be performed by the project quality assurance group under the direction and approval of the Quality Assurance Manager (QAM). These audits will be implemented to evaluate the capability and performance of project and subcontractor personnel, items, activities, and documentation of the measurement system(s). Functioning as an independent body and reporting directly to corporate quality assurance management, the QAM may plan, schedule, and approve system and performance audits based upon procedures customized to the project requirements. At times, the QAM may request additional personnel with specific expertise from company and/or project groups to assist in conducting performance audits. However, these personnel will not have responsibility for the project work associated with the performance audit.

7.2 SYSTEM AUDITS

System audits may be performed by the QAM or designated auditors, and encompass a qualitative evaluation of measurement system components to ascertain their appropriate selection and application. In addition, field and laboratory quality control procedures and associated documentation may be system audited. These audits may be performed once during the performance of the project. Additional audits may occur if conditions adverse to quality are detected or at the request of the Project Manager.

7.3 PERFORMANCE AUDITS

The laboratory may be required to conduct an analysis of Performance Evaluation samples or provide proof that Performance Evaluation samples submitted by USEPA or a state agency have been analyzed within the past twelve months.

7.4 FORMAL AUDITS

Formal audits refer to any system or performance audit that is documented and implemented by the quality assurance group. These audits encompass documented activities performed by qualified lead auditors to a written procedure or checklists to objectively verify that quality assurance requirements have been developed, documented, and instituted in accordance with contractual and project criteria. Formal audits may be performed on project and subcontractor work at various locations.

Audit reports will be written by auditors who have performed the site audit after gathering and evaluating all data. Items, activities, and documents determined by lead auditors to be in noncompliance shall be identified at exit interviews conducted with the involved management.

Non-compliances will be logged, and documented through audit findings, which are attached to and are a part of the integral audit report. These audit-finding forms are directed to management to satisfactorily resolve the noncompliance in a specified and timely manner.

The Project Manager has overall responsibility to ensure that all corrective actions necessary to resolve audit findings are acted upon promptly and satisfactorily. Audit reports must be submitted to the Project Manager within fifteen days of completion of the audit. Serious deficiencies will be reported to the Project Manager within 24 hours. All audit checklists, audit reports, audit findings, and acceptable resolutions are approved by the QAM prior to issue. Verification of acceptable resolutions may be determined by re-audit or documented surveillance of the item or activity. Upon verification acceptance, the QAM will close out the audit report and findings.

8.0 CORRECTIVE ACTION

8.1 INTRODUCTION

The following procedures have been established to ensure that conditions adverse to quality, such as malfunctions, deficiencies, deviations, and errors, are promptly investigated, documented, evaluated, and corrected.

8.2 PROCEDURE DESCRIPTION

When a significant condition adverse to quality is noted at a site, laboratory, or subcontractor location, the cause of the condition will be determined and corrective action will be taken to preclude repetition. Condition identification, cause, reference documents, and corrective action planned to be taken will be documented and reported to the QAM, Project Manager, Field Team Leader and involved contractor management, at a minimum. Implementation of corrective action is verified by documented follow-up action.

All project personnel have the responsibility, as part of the normal work duties, to promptly identify, solicit approved correction, and report conditions adverse to quality. Corrective actions will be initiated as follows:

- When predetermined acceptance standards are not attained;
- When procedure or data compiled are determined to be deficient;
- When equipment or instrumentation is found to be faulty;
- When samples and analytical test results are not clearly traceable;
- When quality assurance requirements have been violated;
- When designated approvals have been circumvented;
- As a result of system and performance audits;
- As a result of a management assessment;
- As a result of laboratory/field comparison studies; and
- As required by USEPA SW-846, and subsequent updates, or by the NYSDEC ASP.

Project management personnel, field investigation teams, remedial response planning personnel, and laboratory groups monitor ongoing work performance during the normal course of daily responsibilities. Work may be audited at project sites, laboratories, or contractor locations. Activities, or documents ascertained to be noncompliant with quality assurance requirements will be documented. Corrective actions will be mandated through audit finding sheets attached to the audit report. Audit findings are logged, maintained, and controlled by the Task Manager.

Personnel assigned to quality assurance functions will have the responsibility to issue and control Corrective Action Request (CAR) Forms (Figure 8.1 or similar by email). The CAR identifies the out-of-compliance condition, reference document(s), and recommended corrective action(s) to be administered. The CAR is issued to the personnel responsible for the affected item or activity. A copy is also submitted to the Project Manager. The individual to whom the CAR is addressed returns the requested response promptly to the quality assurance personnel, affixing his/her signature and date to the corrective action block, after stating the cause of the conditions and corrective action to be taken. The quality assurance personnel maintain the log for status of CARs, confirms the adequacy of the intended corrective action, and verifies its implementation. CARs will be retained in the project file for the records.

Any project personnel may identify noncompliance issues; however, the designated quality assurance personnel are responsible for documenting, numbering, logging, and verifying the close out action. The Project Manager will be responsible for ensuring that all recommended corrective actions are implemented, documented, and approved.

Figure 8.1 Corrective Action Request

CORRECTIVE ACTION REQUEST

Number: _____ Date: _____

TO: _____

You are hereby requested to take corrective actions indicated below and as otherwise determined by you to (a) resolve the noted condition and (b) to prevent it from recurring. Your written response is to be returned to the project quality assurance manager by _____

CONDITION:

REFERENCE DOCUMENTS:

RECOMMENDED CORRECTIVE ACTIONS:

_____ _____ _____ _____ _____ _____

Originator Date Approval Date Approval Date

RESPONSE

CAUSE OF CONDITION

CORRECTIVE ACTION

(A) RESOLUTION

(B) PREVENTION

(C) AFFECTED DOCUMENTS

C.A. FOLLOWUP:

CORRECTIVE ACTION VERIFIED BY: _____ DATE:_____

9.0 REFERENCES

NYSDEC. Division of Environmental Remediation. DER-10/Technical Guidance for Site Investigation and Remediation, dated May 3, 2010.

USEPA, 2016. Low/Medium Volatile Data Validation. SOP No. HW-33A, Revision 1, dated September 2016. USEPA Region II.

USEPA, 2015. PCB Aroclor Data Validation. SOP No. HW-37A, Revision 0, dated July 2015. USEPA Region II.

USEPA, 2016. ICP-AES Data Validation. SOP No. HW-3a, Revision 1, dated September 2016. USEPA Region II.

USEPA, 2016. Mercury and Cyanide Data Validation. SOP No. HW-3c, Revision 1, dated September 2016. USEPA Region II.

USEPA, 2016. Pesticide Data Validation. SOP No. HW-36A, Revision 1, dated October 2016. USEPA Region II.

USEPA, 2016. Semivolatile Data Validation. SOP No. HW-35A, Revision 1, dated September 2016. USEPA Region II.

USEPA, 2016. Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, Revision 6, dated September 2016. USEPA Region II.

USEPA 2017. National Functional Guidelines for Superfund Organic Methods Data Review, Office of Superfund Remediation and Technology Innovation, EPA-540-R-2017-002, January 2017.

USEPA 2017b. National Functional Guidelines for Superfund Inorganic Methods Data Review, Office of Superfund Remediation and Technology Innovation, EPA-540-R-201 7-001, January 2017.

ATTACHMENT A

RESUMES

WILLIAM BOHRER, PG

SENIOR PROJECT GEOLOGIST

GEOLOGIST

Mr. Bohrer is an experienced geologist responsible for managing Langan's environmental standards and Health and Safety compliance for projects throughout New York City. His services include dissemination of environmental protocols, troubleshooting at project sites, in-house/field training, and maintenance of quality standards across the environmental discipline. Mr. Bohrer has a diverse and extensive background in geophysics, hydrogeology, mining and petroleum, and geotechnical engineering. He has developed conceptual site models for public, industrial and commercial facilities nationwide.



SELECTED PROJECTS

- NYU Poly – 122 Johnson Street, Brooklyn, NY
- Con Edison of New York at Governor's Island, NY, NY
- 535 4th Avenue, Brooklyn, NY
- 27 Wooster Street, New York, NY
- 42 West Street, Brooklyn, NY
- 455 West 19th Street, New York, NY
- Kings Plaza Mall, Brooklyn, NY
- Hudson Yards "Terra Firma," New York, NY
- Hudson Yards, Platform Special Inspection, New York, NY
- PSAC II, Bronx, NY
- 595-647 Smith Street, Brooklyn, NY
- New York University, 7-13 Washington Square North Investigation, New York, NY
- NYU 4 Washington Square Village, New York, NY
- 125th Street and Lenox Avenue, New York, NY
- Sullivan Street Development, New York, NY
- Hudson Crossing II, New York, NY
- New York Aquarium, Shark Tank & Animal Care Facility, Brooklyn, NY
- 209-219 Sullivan Street, New York, NY
- 261 Hudson Street, New York, NY
- 460 Washington Street, New York, NY
- 552 West 24th Street, New York, NY
- Brooklyn Bridge Park Pier 1, New York, NY
- International Leadership Bronx Charter School, Bronx, NY
- 203 East 92nd Street, New York, NY
- HighLine 28-29, New York, NY
- 539 Smith Street Bulkhead, Brooklyn, NY
- Willets Point, Corona, NY
- Plume Migration and Fracture Flow Aquifer Investigation, Brunswick, MD
- Plume Migration and Fracture Flow Aquifer Investigation, Fallston, MD
- Emergency Response Site Investigation & Remediation, Wappingers Falls, NY
- Emergency Response Site Investigation & Remediation, Allentown, PA

EDUCATION

Post Graduate Studies in Geophysics
Cornell University

B.S., Geology
Tufts University

PROFESSIONAL REGISTRATION

Professional Geologist (PG) in NY

40 Hour OSHA HazWOPER

OSHA Construction Safety & Health

OSHA Supervisory Certification Credential (TWIC)

Transportation Worker Identification

NYS DEC- Protecting New York's Natural Resources with Better Construction Site Management

AFFILIATIONS

American Association of Petroleum Geologists

National Groundwater Association

Geological Society of America

LANGAN

- Emergency Response Site Investigation & Remediation, Shamokin, PA
- Bermuda International Airport, Jet Fuel Release Investigation, Bermuda
- Little Missouri River Basin, Geotechnical Site Evaluation (Horizontal Drilling Pipeline Install), ND
- Seismic Susceptibility Evaluation (Class 2 Injection Wells), Litchfield, OH
- Bedrock Mapping, Bradford and Sullivan Counties, PA
- Soil Solidification, Carteret, NJ

NY State Council of Professional Geologist

American Geophysical Union

CAROLINE DEVIN

SENIOR STAFF ENGINEER

ENVIRONMENTAL ENGINEERING

Ms. Devin is a senior staff environmental engineer with over three years of experience in environmental consulting in the New York metropolitan area. Ms. Devin has a background in construction monitoring, daily field inspections, environmental site assessments, remedial investigations, sample collection, report writing, and vapor mitigation system design, installation and management.



EDUCATION

B.S., Environmental Engineering
Cornell University

PROFESSIONAL REGISTRATION

10-Hour OSHA

40-Hour OSHA HAZWOPER

SELECTED PROJECTS

- 473 President Street and President Street Portfolio, Construction Oversight and Remedial Systems, Vapor Collection Installation Oversight and Reporting, Brooklyn NY
- 514 Union Street, Vapor Mitigation System Installation and Indoor Air Sampling, SMD System Inspections, Brooklyn, NY
- 305 Nevins Street, Air Sparge, SVE and SMD System Installation Oversight and Management, Brooklyn, NY
- Mayer Malbin Sites, Phase I Due Diligence Reporting, Phase II Investigation Reporting and Management, Queens, NY
- 805-825 Atlantic Avenue, SMD Inspections and Sampling, Quarterly Groundwater Sampling with Passive Diffusion, Periodic Review Reporting (PRR), Brooklyn, NY
- Gowanus Canal Northside, Remedial Construction Oversight and Management, Brooklyn, NY
- 175 Fifth Avenue – Flatiron Building Renovation, NYCOER Compliance, Air Quality/Noise Reporting Flatiron Building Renovation, New York, NY
- 175-225 Third Street, SMD Inspections, Grossly Contaminated Materials Investigation and Reporting, Brooklyn, NY
- 250 Water Street, Remedial Delineation Investigation and Oversight, New York, NY
- 27-01 Jackson Avenue, Remedial Oversight Support, Quarterly Groundwater Monitoring Reports, Long Island City, NY
- 26-32 Jackson Avenue, NY, Remedial Oversight Support, Long Island City
- West Fordham Road, Phase II Investigation and Reporting, Bronx, NY
- 159 Boerum Street, Remedial Oversight Support, Brooklyn, NY
- Staten Island Ballpark, Remedial Oversight Support, Staten Island, NY
- East Adams Redevelopment, Due Diligence Phase I Inspection, Remedial Investigation and Reporting, Syracuse, NY
- 23-15 44th Road, Long Island City, NY

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

Tentori, Wang, Devin, Richardson “Treatment of Anaerobic Digester Liquids via Membrane Biofilm Reactors: Simultaneous Aerobic Methanotrophy and Nitrogen Removal”.

BRIAN GOCHENAUR, QEP

ASSOCIATE PRINCIPAL

ENVIRONMENTAL SCIENTIST

Mr. Gochenaur is an environmental project manager with 20 years of experience in environmental due diligence, site investigation and remediation, fuel oil storage tank investigation and removal, soil vapor intrusion assessments, in-situ remedial technology, spill closure, vapor barrier and sub-slab depressurization system design and construction, emergency response, environmental and geotechnical site investigations, and health and safety monitoring. He has extensive experience with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup, Voluntary Cleanup and Spill Programs and New York City Department of Environmental Protection (NYCDEP) "E" Designated and New York City Voluntary Cleanup Program (BCP) sites. His areas of expertise include Phase I Environmental Site Assessments, Phase II Site Investigations, and environmental consulting and oversight on large scale construction projects.



EDUCATION

B.S., Environmental Science
University of Florida

PROFESSIONAL REGISTRATION

Qualified Environmental Professional (QEP) certified by the Institute of Professional Environmental Practice

40-Hour OSHA (HAZWOPER)

SELECTED PROJECTS

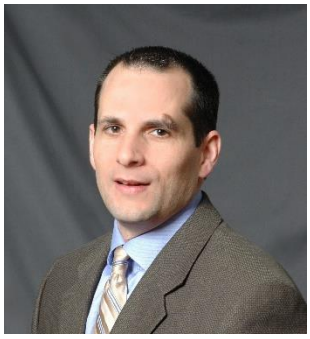
- Bally's Bronx, Ferry Point Park, Bronx, NY
- 440 Washington Street, E-Designated services, New York, NY
- 3514 Surf Avenue, Tall Residential and Retail Building, Brooklyn, NY
- ARO 242 West 53, Tall Residential Building, New York, NY
- NY Aquarium Shark Exhibit, Soil Characterization and Excavation Oversight, Coney Island Neighborhood, Brooklyn, NY
- 60 West Street, Site Investigation and Redevelopment, Brooklyn, NY
- 535 4th Avenue, BCP Auto Repair Cleanup and Redevelopment, Brooklyn, NY
- 1525 Bedford Avenue, BCP Gas Station Cleanup and Redevelopment, Brooklyn, NY
- 220 Eleventh Avenue, Residential Building, New York, NY
- 432 Rodney Street, Residential Building, Brooklyn, NY
- 563 Sackett Street, Brooklyn, NY
- 362 West 125th Street, Residential Building, New York, NY
- Bedford Armory Redevelopment, Brooklyn, NY
- 268 West Street, BCP Redevelopment of Former Commercial and Industrial Site, New York, NY
- 110 125th Street, Soil Excavation and Remediation, New York, NY
- Former Roseland Ballroom Redevelopment, Soil Characterization and Excavation Oversight, New York, NY
- 42 Crosby Street, "E" Designated Site Investigation and Remediation, New York, NY
- New York School Construction Authority, Various Locations, In-House Environmental Consulting, Five Boroughs of New York City
- EZ Serve Portfolio, GE Capital, Various Phase II Site Investigations, FL, GA, LA, and MS
- Beth Elohim Child Daycare Center, Lead Based Paint Abatement, Brooklyn, NY

- Price Battery, Environmental Protection Agency (EPA) Lead Fallout Superfund Site, Hamburg, PA
- Clark Portfolio, GE Capital, Various Phase II Locations, MI, IL, ID, and OH
- Tops Plaza Portfolio, Prudential Real Estate Investors, Various Phase II Locations, NY
- Cingular Wireless Portfolio, Cingular Wireless, Various Locations Phase I and II Locations, WA
- Queens Center Mall Expansion, Remedial Oversight, Elmhurst, NY
- Soka Gakkai International-USA, Cultural Center, Brooklyn, NY
- 1752 Shore Parkway, Environmental Remediation, Brooklyn, NY
- Bedford Union Armory, NYS Brownfield Cleanup Program, Brooklyn, NY
- NYCEDC Manhattan Greenway – Harlem River, New York, NY
- 445 Gerard Avenue, Residential Building, Bronx, NY
- Towne Gardens North, Residential Building, Buffalo, NY

ANTHONY MOFFA, JR., ASP, CHMM, COSS, CSP

ASSOCIATE
CORPORATE HEALTH AND SAFETY MANAGER

Anthony is Langan's Corporate Health & Safety Manager and is responsible for managing health and safety compliance in all Langan office locations. He has 28 years of experience in the health and safety field. He is responsible for ensuring compliance with all federal and state occupational health and safety laws and development and implementation of corporate health and safety policies. His responsibilities include reviewing and updating Langan's Corporate Health and Safety Program and assisting employees in the development of site specific Health & Safety Plans. He maintains and manages health and safety records for employees in all Langan office locations including medical evaluations, respirator fit testing, and Hazardous Waste Operations and Emergency Response training. He is also responsible for documentation and investigation of work-related injuries and incidents and sharing this information with employees to assist in the prevention of future incidents. He is also the chairman of the Corporate Health & Safety Committee and Health & Safety Leadership Team that meet periodically throughout the year. He is responsible for coordinating and providing health and safe training to Langan employees. He was formerly the Environmental, Health and Safety Coordinator at a chemical manufacturer. His experience included employee hazard communications, development of material safety data sheets for developed products, respirator fit testing and conducting required Occupational Health & Safety Association and Department of Transportation training.



EDUCATION

B.S., Physics
West Chester University

PROFESSIONAL REGISTRATION

Associate Safety Professional (ASP)

Certified Hazardous Material Manager (CHMM)

Certified Occupational Safety Specialist (COSS)

Certified Safety Professional (CSP)

AFFILIATIONS

Pennsylvania Chamber of Business & Industry

Chemical Council of New Jersey

New Jersey Business & Industry Association

American Society of Safety Professionals

KIMBERLY DEL COL-SEMON, PE

SENIOR PROJECT MANAGER

ENVIRONMENTAL ENGINEERING

Ms. Semon has almost 15 years of experience in the environmental remediation and water resource management fields. Her expertise includes groundwater hydrology, water resource planning and management, environmental remediation design, implementation and management of brownfield sites, and drinking water treatment system design. She has performed environmental field work, site research, data management and report preparation and is currently involved with the senior management of environmental-driven and multi-discipline projects within New York State and beyond. Ms. Semon is also well versed in city, state and federal regulatory programs including the Voluntary Cleanup Program, Brownfield Cleanup Program, and Superfund.



SELECTED PROJECTS

- East Adams Redevelopment Phase Two Area (Phase I ESA, BCP Application, RI, RIR, RAWP), Syracuse, NY
- East Adams Redevelopment AOT & Phase One Area (Phase I ESA, BCP Application), Syracuse, NY
- Town of North Castle Water District 2 (PFAS Drinking Water Treatment System), Armonk, NY
- Nike Fire Training Base (PFAS Evaluation, Investigation), Harrison, NY
- 600 Grumman Road, (Phase I ESA, Pre-Construction Services), Bethpage, NY
- 95-119 Woodworth Avenue (Subsurface Investigation, BCP Application), Yonkers, NY
- 50 Commercial Street, (NYS BCP, In-Situ Groundwater Treatment, Environmental Remediation), Brooklyn, NY
- 326-350 Rockaway Avenue (Phase I ESA, NYS BCP, Environmental Remediation, Closeout), Brooklyn, NY
- 15 East 88th Street (Spill Remediation), New York, NY
- 475 Bay Street & 31 Wave Street (Phase I ESA, Phase II ESI, NYS BCP, Environmental Remediation, AQ/N RAP/IR), Staten Island, NY
- 83 Apollo Street (SMDS Design, Environmental Remediation, SMP), Brooklyn, NY
- 62 Hanson Place (SSDS Retrofit Design), Brooklyn, NY
- 197-201 Canal Street (Phase I ESA, NYS BCP, Environmental Remediation), Staten Island, NY
- 1601 Surf Avenue (NYS BCP, Environmental Remediation), Brooklyn, NY
- 445 Gerard Avenue (NYS BCP, Environmental Remediation, SMP), Bronx, NY
- 414-444 Gerard Avenue, (NYS BCP, Environmental Remediation, Closeout), Bronx, NY
- Novak Farm, (Emerging Contaminant Sampling Work Plan) McDonough, NY

**Work performed prior to joining Langan.*

EDUCATION

M.S., Sustainable Engineering – Environmental Sustainability
Villanova University

B.S., Chemical Engineering
Villanova University

PROFESSIONAL REGISTRATION

Professional Engineer (PE) in NY

10-Hour OSHA

40-Hour OSHA (HAZWOPER)

AFFILIATIONS

Society of Women Engineers

American Institute of Chemical Engineers

National Groundwater Association

- 27-01 Jackson Avenue, (Phase I ESA, NYS BCP, In-Situ groundwater Treatment, Environmental Remediation, Groundwater Monitoring), Long Island City, NY
- 26-32 Jackson Avenue, (Phase I ESA, Phase II ESI, NYS BCP, Environmental Remediation), Long Island City, NY
- 266-270 West 96th Street, (Phase I ESA, Phase II ESI, NYS BCP, Environmental Remediation), New York, NY
- 1525 Bedford Avenue, (Noise IR, Quarterly Monitoring Report), Brooklyn, NY
- 805-825 Atlantic Avenue, (Phase I ESAs, Subsurface Investigations, NYS BCP, Environmental Remediation, SMP/OM&M), Brooklyn, NY
- NYU 181 Mercer Street, (NYCOER VCP, RIR, RAWP, Environmental Remediation, Spill Closure), New York, NY
- Tottenham Hale, (Phase II ESI), London, UK
- Nine Elms Square Development (Phase II Reporting), London, UK
- Queens Plaza North, (NYS BCP, Environmental Remediation, Closeout), Long Island City, NY
- 335 Bond Street, (BCP Application, Subsurface Investigations, Groundwater Remediation Design), Brooklyn, NY
- 540 West 21st Street, (NYC Voluntary Cleanup Program, RIR, RAWP), New York, NY
- 982-998 Fulton Street, (Phase I ESA), Brooklyn, NY
- 121 Christopher Street, (Phase I ESA), New York, NY
- 2415-2419 Jerome Avenue (Phase I ESA, Phase II ESI, Spill Closure), Bronx, NY
- 267 West 87th Street, (Remedial Investigation & Report), New York, NY
- 211-215 East 38th Street, (Phase I ESA, Phase II ESI), New York, NY
- 615 Tenth Avenue, (Reporting), New York, NY
- River Place I & II, (Annual Reporting, Groundwater Monitoring), New York, NY
- Riverside Parcel 5, (Construction Oversight, Endpoint Sampling, Closure Report), New York, NY
- Riverside Parcel 2, (Construction Oversight), New York, NY
- 170 Amsterdam Avenue, (Construction Oversight), New York, NY
- 17-29 West End Avenue, (Construction Oversight), New York, NY
- 539 Smith Street Bulkhead, , (Construction Oversight), Brooklyn, NY
- Brooklyn Academy of Music North Tower, (Construction Oversight, FER), New York, NY
- Brooklyn Solvent Site (Whitehead Realty), (Construction Oversight), Brooklyn, NY
- Hudson Yards, Terra Firma, (Construction Oversight), New York, NY
- 616 First Avenue, (Construction Oversight), New York, NY
- 27 Wooster Street, (Closure Report), New York, NY
- Columbia University Manhattanville Development, Phase IA & Topdown Area, (Closure Report), New York, NY
- Plainview Water District Plant 5, (Pilot Study, Air Stripping Tower Design for VOC Removal), Plainview, NY*
- Bethpage Water District No. 6, (Pilot Study, Air Stripping Tower Design for VOC Removal), Bethpage, NY*

**Work performed prior to joining Langan.*

- South Huntington Water District Plant 13 Voc Removal, (Pilot Study, GAC Vessel Treatment Design for VOC Removal), South Huntington, NY*
- Plainview Water District Plant 4 Nitrate Removal, (Pilot Study, Process Design), Plainview, NY*
- Plainview Water District & Garden City Water District Optimization Plans, (Booster Pump, Distribution Design Upgrades), Plainview, NY*
- Bethpage Water District-Wide Plume Modeling, (Visual MODFlow Groundwater Modeling of Northrup-Grumman VOC Plume), Bethpage and Hicksville, NY*
- Master Planning for Dix Hills and Plainview Water Districts (Hydraulic Modeling, Water Demand Forecasting, Master Plan Preparation), Dix Hills and Plainview, NY*

**Work performed prior to joining Langan.*

ATTACHMENT B

LABORATORY REPORTING LIMITS AND METHOD DETECTION LIMITS

Date Created: 03/19/24
Created By: Ben Rao
File: PM16348-1
Page: 1

Langan Engineering & Environmental

TCL Volatiles - EPA 8260D/5035 High&Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	10	4.811	ug/kg	54-140	30	54-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Langan Engineering & Environmental

TCL Volatiles - EPA 8260D/5035 High&Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	80	35.1	ug/kg	65-136	30	65-136	30	30			
1,4-Diethylbenzene	105-05-5	2	0.177	ug/kg	70-130	30	70-130	30	30			
4-Ethyltoluene	622-96-8	2	0.384	ug/kg	70-130	30	70-130	30	30			
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.191	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
2-Chloroethoxyethane												
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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NYTCL Semivolatiles - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			

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NYTCL Semivolatiles - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
Acetophenone	98-86-2	167	20.6746	ug/kg	14-144	50	14-144	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
1,4-Dioxane	123-91-1	25.05	7.682	ug/kg	40-140	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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TCL Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	1.6008	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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Langan Engineering & Environmental

Herbicides -EPA 8151A (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

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TCL PCBs - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	50	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	50	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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METALS by 6010D (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.2	0.1132	mg/kg	75-124		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserved

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Langan Engineering & Environmental

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserved

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Langan Engineering & Environmental

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container
Chromium, Hexavalent	18540-29-9	0.8	0.16	mg/kg	80-120	20	75-125	20	20	7196A	30 days	1 - Glass 120ml/4oz unpreserved
Cyanide, Total	57-12-5	1	0.212	mg/kg	80-120	35	75-125	35	35	9010C/9012B	14 days	1 - Glass 250ml/8oz unpreserved

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PFAAs via EPA 1633 (Draft) (SOIL)

Holding Time: 90 days
Container/Sample Preservation: 1 - Plastic 8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	0.8	0.0504	ng/g	40-150	30	40-150	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.4	0.056	ng/g	40-150	30	40-150	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.2	0.0432	ng/g	40-150	30	40-150	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	0.8	0.0808	ng/g	40-150	30	40-150	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	0.2	0.0464	ng/g	40-150	30	40-150	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.2	0.0232	ng/g	40-150	30	40-150	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	0.2	0.0232	ng/g	40-150	30	40-150	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	0.2	0.0592	ng/g	40-150	30	40-150	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	0.2	0.052	ng/g	40-150	30	40-150	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	0.8	0.28	ng/g	40-150	30	40-150	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.2	0.0368	ng/g	40-150	30	40-150	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	0.2	0.0784	ng/g	40-150	30	40-150	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.2	0.0792	ng/g	40-150	30	40-150	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	0.2	0.0752	ng/g	40-150	30	40-150	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	0.8	0.3872	ng/g	40-150	30	40-150	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.2	0.0424	ng/g	40-150	30	40-150	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA	2355-31-9	0.2	0.1	ng/g	40-150	30	40-150	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.2	0.0512	ng/g	40-150	30	40-150	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	0.2	0.032	ng/g	40-150	30	40-150	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.2	0.0432	ng/g	40-150	30	40-150	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	0.2	0.0824	ng/g	40-150	30	40-150	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.2	0.0408	ng/g	40-150	30	40-150	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.2	0.0528	ng/g	40-150	30	40-150	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	0.2	0.1064	ng/g	40-150	30	40-150	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pro	13252-13-6	0.8	0.0984	ng/g	40-150	30	40-150	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	0.8	0.1464	ng/g	40-150	30	40-150	30	30			
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	0.2	0.0384	ng/g	40-150	30	40-150	30	30			
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3	756426-58-1	0.8	0.196	ng/g	40-150	30	40-150	30	30			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-	763051-92-9	0.8	0.1672	ng/g	40-150	30	40-150	30	30			
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	0.2	0.1	ng/g	40-150	30	40-150	30	30			
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	0.2	0.112	ng/g	40-150	30	40-150	30	30			
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	2	0.2504	ng/g	40-150	30	40-150	30	30			
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	2	0.5104	ng/g	40-150	30	40-150	30	30			
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	0.4	0.0408	ng/g	40-150	30	40-150	30	30			
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	0.4	0.0312	ng/g	40-150	30	40-150	30	30			
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	0.4	0.0832	ng/g	40-150	30	40-150	30	30			
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	0.4	0.0952	ng/g	40-150	30	40-150	30	30			
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	1	0.144	ng/g	40-150	30	40-150	30	30			
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	5	0.5048	ng/g	40-150	30	40-150	30	30			
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	5	1.76	ng/g	40-150	30	40-150	30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*20-150*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*20-150*		

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PFAAs via EPA 1633 (Draft) (SOIL)

Holding Time: 90 days
Container/Sample Preservation: 1 - Plastic 8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*20-150*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4	*NONE*									*20-150*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*20-150*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*20-150*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*20-150*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*20-150*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*20-150*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*20-150*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*20-150*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*20-150*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*20-150*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (	*NONE*									*20-150*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*20-150*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*20-150*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*20-150*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*20-150*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*20-150*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*20-150*		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	*NONE*									*20-150*		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	*NONE*									*20-150*		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol	*1265205-95-5*									*20-150*		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d	*NONE*									*20-150*		

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TPH by GC-FID Quantitation Only (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
TPH (C10-C36)	NONE	33350	3835.25	ug/kg	40-140	40	40-140	40	40			
o-Terphenyl	*84-15-1*									*40-140*		

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Langan Engineering & Environmental

TPH - Gasoline Range Organics (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial MeOH preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Gasoline Range Organics	NONE	2500	1450	ug/kg	80-120	20	80-120	20	20			
1,1,1-Trifluorotoluene	*98-08-8*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		

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Langan Engineering & Environmental

TCL Volatiles - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	0.5393	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.2156	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.1978	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.1652	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.2958	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.1895	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.2615	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.1813	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.1925	ug/l	75-130	20	75-130	20	20			
Trichlorofluoromethane	75-69-4	2.5	0.2667	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.1595	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.1924	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.1643	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.1436	ug/l	70-130	20	70-130	20	20			
1,1-Dichloropropene	563-58-6	2.5	0.2559	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.2477	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.1915	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.194	ug/l	70-130	20	70-130	20	20			
Toluene	108-88-3	0.75	0.2269	ug/l	70-130	20	70-130	20	20			
Ethylbenzene	100-41-4	0.5	0.265	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2815	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.2563	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.2241	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.2335	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.1811	ug/l	61-145	20	61-145	20	20			
trans-1,2-Dichloroethene	156-60-5	0.75	0.2108	ug/l	70-130	20	70-130	20	20			
Trichloroethene	79-01-6	0.5	0.1746	ug/l	70-130	20	70-130	20	20			
1,2-Dichlorobenzene	95-50-1	2.5	0.1836	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.1863	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.215	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.16	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.3477	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.3297	ug/l	70-130	20	70-130	20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.1866	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.3633	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.4275	ug/l	64-130	20	64-130	20	20			
Acrylonitrile	107-13-1	5	0.4297	ug/l	70-130	20	70-130	20	20			
Styrene	100-42-5	1	0.3591	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	0.2999	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.5606	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.2995	ug/l	51-130	20	51-130	20	20			

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TCL Volatiles - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
2-Butanone	78-93-3	5	1.9386	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.3111	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.4162	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.5783	ug/l	57-130	20	57-130	20	20			
Bromochloromethane	74-97-5	2.5	0.3295	ug/l	70-130	20	70-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.3975	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.1929	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.2122	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.1652	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.1837	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.1961	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.1806	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.3016	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.1823	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.1847	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.327	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.6	0.2301	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.1885	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.2174	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.1734	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.2338	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.2197	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.2105	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.2678	ug/l	70-130	20	70-130	20	20			
1,4-Dioxane	123-91-1	250	75.7059	ug/l	56-162	20	56-162	20	20			
1,4-Diethylbenzene	105-05-5	2	0.1084	ug/l	70-130	20	70-130	20	20			
4-Ethyltoluene	622-96-8	2	0.4162	ug/l	70-130	20	70-130	20	20			
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.0965	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.2045	ug/l	59-134	20	59-134	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.1733	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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NYTCL Semivolatiles - EPA 8270E (LVI) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2.002	0.44408	ug/l	37-111	30	37-111	30	30			
1,2,4-Trichlorobenzene	120-82-1	5.0232	0.49868	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2.002	0.46592	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2.002	0.50596	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2.002	0.4368	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2.002	0.455	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2.002	0.40404	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2.002	0.43316	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5.0232	1.62344	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5.0232	1.1648	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5.0232	0.93184	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2.002	0.257348	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2.002	0.48776	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2.002	0.37856	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2.002	0.5278	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5.0232	0.50232	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2.002	0.65884	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20.02	0.68796	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2.002	0.58604	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5.0232	1.20484	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2.002	0.46592	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2.002	0.77168	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2.002	0.4186	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5.0232	0.64428	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3.003	1.53608	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5.0232	1.17208	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5.0232	0.38948	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5.0232	1.274	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5.0232	0.3822	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5.0232	1.82	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2.002	0.32578	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2.002	0.40768	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2.002	0.355264	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2.002	0.37492	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2.002	0.341068	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2.002	0.46592	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2.002	0.32942	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2.002	0.296296	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2.002	0.41496	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2.002	0.33124	ug/l	40-140	30	40-140	30	30			
Dibenzo(a,h)anthracene	53-70-3	2.002	0.323232	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2.002	0.39676	ug/l	40-140	30	40-140	30	30			

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Langan Engineering & Environmental

NYTCL Semivolatiles - EPA 8270E (LVI) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Pyrene	129-00-0	2.002	0.279552	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2.002	0.45864	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5.0232	1.07016	ug/l	40-140	30	40-140	30	30			
2-Nitroaniline	88-74-4	5.0232	0.49868	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5.0232	0.81536	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5.0232	0.8008	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2.002	0.49868	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2.002	0.455	ug/l	40-140	30	40-140	30	30			
Acetophenone	98-86-2	5.0232	0.5278	ug/l	39-129	30	39-129	30	30			
2,4,6-Trichlorophenol	88-06-2	5.0232	0.61152	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2.002	0.35126	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2.002	0.48048	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5.0232	0.41132	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5.0232	1.77996	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10.01	0.84812	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10.01	0.6734	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20.02	6.6612	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10.01	1.81636	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10.01	1.79452	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5.0232	0.56784	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5.0232	0.4914	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5.0232	0.48048	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5.0232	0.77532	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50.232	2.66084	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2.002	0.58968	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2.002	0.4914	ug/l	55-144	30	55-144	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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NYTCL Semivolatiles -EPA 8270E-SIM (LVI) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1001	0.01442168	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2002	0.01804712	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1001	0.02054052	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5005	0.04674852	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1001	0.04882696	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1001	0.0198198	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1001	0.01493856	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1001	0.01156792	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1001	0.00889616	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1001	0.01198288	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1001	0.01222676	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1001	0.01450176	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1001	0.01365	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1001	0.01456364	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1001	0.02333604	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1001	0.0127218	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1001	0.01217216	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1001	0.01902264	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1001	0.02192372	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8008	0.0143416	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8008	0.00938028	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8008	0.06320132	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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TCL Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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Herbicides -EPA 8151A (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
2,4-D	94-75-7	10	0.498	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.531	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.539	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

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TCL PCBs - EPA 8082A (LVI) (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.0000714	0.000061047	mg/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.0000714	0.000061047	mg/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.0000714	0.000061047	mg/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.0000714	0.000061047	mg/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.0000714	0.000061047	mg/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.0000714	0.000061047	mg/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.0000714	0.000061047	mg/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.0000714	0.000061047	mg/l	40-140	50	40-140	50	50			
Aroclor 1268	11100-14-4	0.0000714	0.000061047	mg/l	40-140	50	40-140	50	50			
PCBs, Total	1336-36-3	0.0000714	0.000061047	mg/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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METALS by 6020B (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container
Aluminum, Total	7429-90-5	0.01	0.00327	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony, Total	7440-36-0	0.004	0.000429	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic, Total	7440-38-2	0.0005	0.000165	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium, Total	7440-39-3	0.0005	0.000173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium, Total	7440-41-7	0.0005	0.000107	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium, Total	7440-43-9	0.0002	0.0000599	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium, Total	7440-70-2	0.1	0.0394	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium, Total	7440-47-3	0.001	0.000178	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt, Total	7440-48-4	0.0005	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper, Total	7440-50-8	0.001	0.000384	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron, Total	7439-89-6	0.05	0.0191	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead, Total	7439-92-1	0.001	0.000343	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium, Total	7439-95-4	0.07	0.0242	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese, Total	7439-96-5	0.001	0.00044	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel, Total	7440-02-0	0.002	0.000556	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium, Total	7440-09-7	0.1	0.0309	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium, Total	7782-49-2	0.005	0.00173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver, Total	7440-22-4	0.0004	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium, Total	7440-23-5	0.1	0.0293	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium, Total	7440-28-0	0.001	0.000143	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium, Total	7440-62-2	0.005	0.00157	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc, Total	7440-66-6	0.01	0.00341	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

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METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container
Chromium, Hexavalent	18540-29-9	0.01	0.003	mg/l	85-115	20	85-115	20	20	7196A	24 hours	1 - Plastic 500ml unpreserved
Cyanide, Total	57-12-5	0.005	0.0018	mg/l	85-115	20	80-120	20	20	9010C/9012B	14 days	1 - Plastic 250ml NaOH preserved

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1,4 Dioxane via EPA 8270E-SIM (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	150	33.9	ng/l	88-134	30	88-134	30	30			
1,4-Dioxane-d8	*17647-74-4*									*24-71*		
1,4-Dioxane-d8 (IS)	17647-74-4			ng/l								

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PFAAs via EPA 1633 (Draft) (WATER)

Holding Time: 28 days
Container/Sample Preservation: 3 - Plastic 500ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	6.4	1.024	ng/l	40-150	30	40-150	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	3.2	0.856	ng/l	40-150	30	40-150	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	1.6	0.536	ng/l	40-150	30	40-150	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	6.4	1.672	ng/l	40-150	30	40-150	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	1.6	0.472	ng/l	40-150	30	40-150	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	1.6	0.28	ng/l	40-150	30	40-150	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1.6	0.32	ng/l	40-150	30	40-150	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.6	0.384	ng/l	40-150	30	40-150	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	1.6	0.696	ng/l	40-150	30	40-150	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	6.4	2.16	ng/l	40-150	30	40-150	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	1.6	0.432	ng/l	40-150	30	40-150	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	1.6	0.504	ng/l	40-150	30	40-150	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	1.6	0.728	ng/l	40-150	30	40-150	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	1.6	0.648	ng/l	40-150	30	40-150	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	6.4	2.488	ng/l	40-150	30	40-150	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	1.6	0.496	ng/l	40-150	30	40-150	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA	2355-31-9	1.6	0.872	ng/l	40-150	30	40-150	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	1.6	0.696	ng/l	40-150	30	40-150	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	1.6	0.368	ng/l	40-150	30	40-150	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	1.6	0.432	ng/l	40-150	30	40-150	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	1.6	0.864	ng/l	40-150	30	40-150	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	1.6	0.736	ng/l	40-150	30	40-150	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	1.6	0.6	ng/l	40-150	30	40-150	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	1.6	0.424	ng/l	40-150	30	40-150	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pro	13252-13-6	6.4	0.896	ng/l	40-150	30	40-150	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	6.4	1.008	ng/l	40-150	30	40-150	30	30			
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	1.6	0.608	ng/l	40-150	30	40-150	30	30			
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3	756426-58-1	6.4	1.32	ng/l	40-150	30	40-150	30	30			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-	763051-92-9	6.4	1.32	ng/l	40-150	30	40-150	30	30			
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	1.6	0.696	ng/l	40-150	30	40-150	30	30			
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	1.6	0.736	ng/l	40-150	30	40-150	30	30			
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	16	3.76	ng/l	40-150	30	40-150	30	30			
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	16	1.96	ng/l	40-150	30	40-150	30	30			
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	3.2	0.456	ng/l	40-150	30	40-150	30	30			
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	3.2	0.424	ng/l	40-150	30	40-150	30	30			
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	3.2	0.352	ng/l	40-150	30	40-150	30	30			
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	3.2	1.888	ng/l	40-150	30	40-150	30	30			
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	8	2.64	ng/l	40-150	30	40-150	30	30			
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	40	9.36	ng/l	40-150	30	40-150	30	30			
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	40	6.312	ng/l	40-150	30	40-150	30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*20-150*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*20-150*		

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PFAAs via EPA 1633 (Draft) (WATER)

Holding Time: 28 days
Container/Sample Preservation: 3 - Plastic 500ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*20-150*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4	*NONE*									*20-150*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*20-150*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*20-150*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*20-150*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*20-150*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*20-150*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*20-150*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*20-150*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*20-150*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*20-150*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (	*NONE*									*20-150*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*20-150*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*20-150*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*20-150*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*20-150*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*20-150*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*20-150*		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	*NONE*									*20-150*		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	*NONE*									*20-150*		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol	*1265205-95-5*									*20-150*		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d	*NONE*									*20-150*		

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TPH by GC-FID Quantitation Only (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 500ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
TPH (C10-C36)	NONE	200	84	ug/l	40-140	40	40-140	40	40			
o-Terphenyl	*84-15-1*									*40-140*		

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Langan Engineering & Environmental

TPH - Gasoline Range Organics (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Gasoline Range Organics	NONE	50	5.8	ug/l	80-120	20	80-120	20	20			
1,1,1-Trifluorotoluene	*98-08-8*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		

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Attachment B
Air Samples
Laboratory Reporting Limits and Method Detection Limits

Method	Analyte	Reporting Limit	Units		Method	Analyte	Reporting Limit	Units
TO15	1,1,2,2-Tetrachloroethane	1.37	ug/m3		TO15	1,1,2,2-Tetrachloroethane	0.2	ppbV
TO15	1,1,2-Trichloroethane	1.09	ug/m3		TO15	1,1,2-Trichloroethane	0.2	ppbV
TO15	1,1-Dichloroethane	0.809	ug/m3		TO15	1,1-Dichloroethane	0.2	ppbV
TO15	1,2,4-Trichlorobenzene	1.48	ug/m3		TO15	1,2,4-Trichlorobenzene	0.2	ppbV
TO15	1,2,4-Trimethylbenzene	0.983	ug/m3		TO15	1,2,4-Trimethylbenzene	0.2	ppbV
TO15	1,2-Dibromoethane	1.54	ug/m3		TO15	1,2-Dibromoethane	0.2	ppbV
TO15	1,2-Dichlorobenzene	1.2	ug/m3		TO15	1,2-Dichlorobenzene	0.2	ppbV
TO15	1,2-Dichloroethane	0.809	ug/m3		TO15	1,2-Dichloroethane	0.2	ppbV
TO15	1,2-Dichloropropane	0.924	ug/m3		TO15	1,2-Dichloropropane	0.2	ppbV
TO15	1,3,5-Trimethylbenzene	0.983	ug/m3		TO15	1,3,5-Trimethylbenzene	0.2	ppbV
TO15	1,3-Butadiene	0.442	ug/m3		TO15	1,3-Butadiene	0.2	ppbV
TO15	1,3-Dichlorobenzene	1.2	ug/m3		TO15	1,3-Dichlorobenzene	0.2	ppbV
TO15	1,4-Dichlorobenzene	1.2	ug/m3		TO15	1,4-Dichlorobenzene	0.2	ppbV
TO15	1,4-Dioxane	0.721	ug/m3		TO15	1,4-Dioxane	0.2	ppbV
TO15	2,2,4-Trimethylpentane	0.934	ug/m3		TO15	2,2,4-Trimethylpentane	0.2	ppbV
TO15	2-Butanone	1.47	ug/m3		TO15	2-Butanone	0.5	ppbV
TO15	2-Hexanone	0.82	ug/m3		TO15	2-Hexanone	0.2	ppbV
TO15	3-Chloropropene	0.626	ug/m3		TO15	3-Chloropropene	0.2	ppbV
TO15	4-Ethyltoluene	0.983	ug/m3		TO15	4-Ethyltoluene	0.2	ppbV
TO15	4-Methyl-2-pentanone	2.05	ug/m3		TO15	4-Methyl-2-pentanone	0.5	ppbV
TO15	Acetone	2.38	ug/m3		TO15	Acetone	1	ppbV
TO15	Benzene	0.639	ug/m3		TO15	Benzene	0.2	ppbV
TO15	Benzyl chloride	1.04	ug/m3		TO15	Benzyl chloride	0.2	ppbV
TO15	Bromodichloromethane	1.34	ug/m3		TO15	Bromodichloromethane	0.2	ppbV
TO15	Bromoform	2.07	ug/m3		TO15	Bromoform	0.2	ppbV
TO15	Bromomethane	0.777	ug/m3		TO15	Bromomethane	0.2	ppbV
TO15	Carbon disulfide	0.623	ug/m3		TO15	Carbon disulfide	0.2	ppbV
TO15	Chlorobenzene	0.921	ug/m3		TO15	Chlorobenzene	0.2	ppbV
TO15	Chloroethane	0.528	ug/m3		TO15	Chloroethane	0.2	ppbV
TO15	Chloroform	0.977	ug/m3		TO15	Chloroform	0.2	ppbV
TO15	Chloromethane	0.413	ug/m3		TO15	Chloromethane	0.2	ppbV
TO15	cis-1,3-Dichloropropene	0.908	ug/m3		TO15	cis-1,3-Dichloropropene	0.2	ppbV
TO15	Cyclohexane	0.688	ug/m3		TO15	Cyclohexane	0.2	ppbV
TO15	Dibromochloromethane	1.7	ug/m3		TO15	Dibromochloromethane	0.2	ppbV
TO15	Dichlorodifluoromethane	0.989	ug/m3		TO15	Dichlorodifluoromethane	0.2	ppbV
TO15	Ethanol	9.42	ug/m3		TO15	Ethanol	5	ppbV
TO15	Ethyl Acetate	1.8	ug/m3		TO15	Ethyl Acetate	0.5	ppbV
TO15	Ethylbenzene	0.869	ug/m3		TO15	Ethylbenzene	0.2	ppbV
TO15	Freon-113	1.53	ug/m3		TO15	Freon-113	0.2	ppbV
TO15	Freon-114	1.4	ug/m3		TO15	Freon-114	0.2	ppbV
TO15	Heptane	0.82	ug/m3		TO15	Heptane	0.2	ppbV
TO15	Hexachlorobutadiene	2.13	ug/m3		TO15	Hexachlorobutadiene	0.2	ppbV
TO15	Isopropanol	1.23	ug/m3		TO15	Isopropanol	0.5	ppbV
TO15	Methyl tert butyl ether	0.721	ug/m3		TO15	Methyl tert butyl ether	0.2	ppbV
TO15	Methylene chloride	1.74	ug/m3		TO15	Methylene chloride	0.5	ppbV
TO15	n-Hexane	0.705	ug/m3		TO15	n-Hexane	0.2	ppbV
TO15	o-Xylene	0.869	ug/m3		TO15	o-Xylene	0.2	ppbV
TO15	p/m-Xylene	1.74	ug/m3		TO15	p/m-Xylene	0.4	ppbV
TO15	Styrene	0.852	ug/m3		TO15	Styrene	0.2	ppbV
TO15	Tertiary butyl Alcohol	1.52	ug/m3		TO15	Tertiary butyl Alcohol	0.5	ppbV
TO15	Tetrahydrofuran	1.47	ug/m3		TO15	Tetrahydrofuran	0.5	ppbV
TO15	Toluene	0.754	ug/m3		TO15	Toluene	0.2	ppbV
TO15	trans-1,2-Dichloroethene	0.793	ug/m3		TO15	trans-1,2-Dichloroethene	0.2	ppbV
TO15	trans-1,3-Dichloropropene	0.908	ug/m3		TO15	trans-1,3-Dichloropropene	0.2	ppbV
TO15	Trichlorofluoromethane	1.12	ug/m3		TO15	Trichlorofluoromethane	0.2	ppbV
TO15	Vinyl bromide	0.874	ug/m3		TO15	Vinyl bromide	0.2	ppbV
TO15-SIM	1,1,1-Trichloroethane	0.109	ug/m3		TO15-SIM	1,1,1-Trichloroethane	0.02	ppbV
TO15-SIM	1,1-Dichloroethene	0.079	ug/m3		TO15-SIM	1,1-Dichloroethene	0.02	ppbV
TO15-SIM	Carbon tetrachloride	0.126	ug/m3		TO15-SIM	Carbon tetrachloride	0.02	ppbV
TO15-SIM	cis-1,2-Dichloroethene	0.079	ug/m3		TO15-SIM	cis-1,2-Dichloroethene	0.02	ppbV
TO15-SIM	Tetrachloroethene	0.136	ug/m3		TO15-SIM	Tetrachloroethene	0.02	ppbV
TO15-SIM	Trichloroethene	0.107	ug/m3		TO15-SIM	Trichloroethene	0.02	ppbV
TO15-SIM	Vinyl chloride	0.051	ug/m3		TO15-SIM	Vinyl chloride	0.02	ppbV

Attachment B
Soil Vapor Samples
Laboratory Reporting Limits and Method Detection Limits

Method	Analyte	Reporting Limit	Units	Method	Analyte	Reporting Limit	Units
TO15	1,1,1-Trichloroethane	1.09	ug/m3	TO15	1,1,1-Trichloroethane	0.2	ppbV
TO15	1,1,2,2-Tetrachloroethane	1.37	ug/m3	TO15	1,1,2,2-Tetrachloroethane	0.2	ppbV
TO15	1,1,2-Trichloroethane	1.09	ug/m3	TO15	1,1,2-Trichloroethane	0.2	ppbV
TO15	1,1-Dichloroethane	0.809	ug/m3	TO15	1,1-Dichloroethane	0.2	ppbV
TO15	1,1-Dichloroethene	0.793	ug/m3	TO15	1,1-Dichloroethene	0.2	ppbV
TO15	1,2,4-Trichlorobenzene	1.48	ug/m3	TO15	1,2,4-Trichlorobenzene	0.2	ppbV
TO15	**1,2,4-Trimethylbenzene**	**0.983**	**ug/m3**	**TO15**	**1,2,4-Trimethylbenzene**	**0.2**	**ppbV**
TO15	1,2-Dibromoethane	1.54	ug/m3	TO15	1,2-Dibromoethane	0.2	ppbV
TO15	1,2-Dichlorobenzene	1.2	ug/m3	TO15	1,2-Dichlorobenzene	0.2	ppbV
TO15	1,2-Dichloroethane	0.809	ug/m3	TO15	1,2-Dichloroethane	0.2	ppbV
TO15	1,2-Dichloropropane	0.924	ug/m3	TO15	1,2-Dichloropropane	0.2	ppbV
TO15	**1,3,5-Trimethylbenzene**	**0.983**	**ug/m3**	**TO15**	**1,3,5-Trimethylbenzene**	**0.2**	**ppbV**
TO15	1,3-Butadiene	0.442	ug/m3	TO15	1,3-Butadiene	0.2	ppbV
TO15	1,3-Dichlorobenzene	1.2	ug/m3	TO15	1,3-Dichlorobenzene	0.2	ppbV
TO15	1,4-Dichlorobenzene	1.2	ug/m3	TO15	1,4-Dichlorobenzene	0.2	ppbV
TO15	1,4-Dioxane	0.721	ug/m3	TO15	1,4-Dioxane	0.2	ppbV
TO15	**2,2,4-Trimethylpentane**	**0.934**	**ug/m3**	**TO15**	**2,2,4-Trimethylpentane**	**0.2**	**ppbV**
TO15	2-Butanone	1.47	ug/m3	TO15	2-Butanone	0.5	ppbV
TO15	2-Hexanone	0.82	ug/m3	TO15	2-Hexanone	0.2	ppbV
TO15	3-Chloropropene	0.626	ug/m3	TO15	3-Chloropropene	0.2	ppbV
TO15	4-Ethyltoluene	0.983	ug/m3	TO15	4-Ethyltoluene	0.2	ppbV
TO15	4-Methyl-2-pentanone	2.05	ug/m3	TO15	4-Methyl-2-pentanone	0.5	ppbV
TO15	Acetone	2.38	ug/m3	TO15	Acetone	1	ppbV
TO15	**Benzene**	**0.639**	**ug/m3**	**TO15**	**Benzene**	**0.2**	**ppbV**
TO15	Benzyl chloride	1.04	ug/m3	TO15	Benzyl chloride	0.2	ppbV
TO15	Bromodichloromethane	1.34	ug/m3	TO15	Bromodichloromethane	0.2	ppbV
TO15	Bromoform	2.07	ug/m3	TO15	Bromoform	0.2	ppbV
TO15	Bromomethane	0.777	ug/m3	TO15	Bromomethane	0.2	ppbV
TO15	Carbon disulfide	0.623	ug/m3	TO15	Carbon disulfide	0.2	ppbV
TO15	Carbon tetrachloride	1.26	ug/m3	TO15	Carbon tetrachloride	0.2	ppbV
TO15	Chlorobenzene	0.921	ug/m3	TO15	Chlorobenzene	0.2	ppbV
TO15	Chloroethane	0.528	ug/m3	TO15	Chloroethane	0.2	ppbV
TO15	Chloroform	0.977	ug/m3	TO15	Chloroform	0.2	ppbV
TO15	Chloromethane	0.413	ug/m3	TO15	Chloromethane	0.2	ppbV
TO15	cis-1,2-Dichloroethene	0.793	ug/m3	TO15	cis-1,2-Dichloroethene	0.2	ppbV
TO15	cis-1,3-Dichloropropene	0.908	ug/m3	TO15	cis-1,3-Dichloropropene	0.2	ppbV
TO15	**Cyclohexane**	**0.688**	**ug/m3**	**TO15**	**Cyclohexane**	**0.2**	**ppbV**
TO15	Dibromochloromethane	1.7	ug/m3	TO15	Dibromochloromethane	0.2	ppbV
TO15	Dichlorodifluoromethane	0.989	ug/m3	TO15	Dichlorodifluoromethane	0.2	ppbV
TO15	Ethanol	9.42	ug/m3	TO15	Ethanol	5	ppbV
TO15	Ethyl Acetate	1.8	ug/m3	TO15	Ethyl Acetate	0.5	ppbV
TO15	**Ethylbenzene**	**0.869**	**ug/m3**	**TO15**	**Ethylbenzene**	**0.2**	**ppbV**
TO15	Freon-113	1.53	ug/m3	TO15	Freon-113	0.2	ppbV
TO15	Freon-114	1.4	ug/m3	TO15	Freon-114	0.2	ppbV
TO15	**Heptane**	**0.82**	**ug/m3**	**TO15**	**Heptane**	**0.2**	**ppbV**
TO15	Hexachlorobutadiene	2.13	ug/m3	TO15	Hexachlorobutadiene	0.2	ppbV
TO15	Isopropanol	1.23	ug/m3	TO15	Isopropanol	0.5	ppbV
TO15	Methyl tert butyl ether	0.721	ug/m3	TO15	Methyl tert butyl ether	0.2	ppbV
TO15	Methylene chloride	1.74	ug/m3	TO15	Methylene chloride	0.5	ppbV
TO15	**n-Hexane**	**0.705**	**ug/m3**	**TO15**	**n-Hexane**	**0.2**	**ppbV**
TO15	**o-Xylene**	**0.869**	**ug/m3**	**TO15**	**o-Xylene**	**0.2**	**ppbV**
TO15	**p/m-Xylene**	**1.74**	**ug/m3**	**TO15**	**p/m-Xylene**	**0.4**	**ppbV**
TO15	Styrene	0.852	ug/m3	TO15	Styrene	0.2	ppbV
TO15	Tertiary butyl Alcohol	1.52	ug/m3	TO15	Tertiary butyl Alcohol	0.5	ppbV
TO15	Tetrachloroethene	1.36	ug/m3	TO15	Tetrachloroethene	0.2	ppbV
TO15	Tetrahydrofuran	1.47	ug/m3	TO15	Tetrahydrofuran	0.5	ppbV
TO15	**Toluene**	**0.754**	**ug/m3**	**TO15**	**Toluene**	**0.2**	**ppbV**
TO15	trans-1,2-Dichloroethene	0.793	ug/m3	TO15	trans-1,2-Dichloroethene	0.2	ppbV
TO15	trans-1,3-Dichloropropene	0.908	ug/m3	TO15	trans-1,3-Dichloropropene	0.2	ppbV
TO15	Trichloroethene	1.07	ug/m3	TO15	Trichloroethene	0.2	ppbV
TO15	Trichlorofluoromethane	1.12	ug/m3	TO15	Trichlorofluoromethane	0.2	ppbV
TO15	Vinyl bromide	0.874	ug/m3	TO15	Vinyl bromide	0.2	ppbV
TO15	Vinyl chloride	0.511	ug/m3	TO15	Vinyl chloride	0.2	ppbV
TO15-LL	**Naphthalene**	**1.05**	**ug/m3**	**TO15**	**Naphthalene**	**0.2**	**ppbV**

ATTACHMENT C

ANALYTICAL METHODS/QUALITY ASSURANCE
SUMMARY TABLE

ATTACHMENT C

ANALYTICAL METHODS/QUALITY ASSURANCE SUMMARY TABLE

Matrix Type	Field Parameters	Laboratory Parameters	Analytical Methods	Sample Preservation	Sample Container Volume and Type	Sample Hold Time	Field Duplicate Samples	Field Blank Samples	Media Blank Samples	Equipment Blank Samples	Trip Blank Samples	Ambient Air Samples	MS/MSD Samples
Soil	Total VOCs via PID	Part 375 + TCL VOCs	EPA 8260C	Cool to 4°C	Two 40-ml VOC vials with 5ml H_2O, one with MeOH or 3 En Core Samplers (separate container for % solids)	14 days	1 per 20 samples (minimum 1)	1 per 20 samples (minimum 1)	NA	NA	NA	NA	1 per 20 samples
		Part 375 + TCL SVOCs	EPA 8270D	Cool to 4°C	4 oz. amber glass jar	14 days extract, 40 days after extraction to analysis							
		Part 375 + TAL Metals + Cyanide	EPA 6010C, EPA 7470A, EPA 7196A, EPA 9014/9010C	Cool to 4°C	2 oz. amber glass jar	6 months, except mercury 28 days				NA			
		Part 375 + TCL Pesticides	EPA 8081B	Cool to 4°C	4 oz. amber glass jar	14 days extract, 40 days after extraction to analysis							
		Part 375 + TCL PCBs	EPA 8082A	Cool to 4°C	4 oz. amber glass jar	14 days extract, 40 days after extraction to analysis							
		NYSDEC List PFAS	EPA 1633	Cool to 4°C	8 oz. HDPE jar	14 days to extract, 28 days after extraction to analysis				1 per day			
		1,4-Dioxane	8270 SIM	Cool to 4°C	4 oz. amber glass jar	14 days extract, 40 days after extraction to analysis				NA			
Groundwater	Temperature, Turbidity, pH, ORP, Conductivity, DO	Part 375 + TCL VOCs	EPA 8260C	Cool to 4°C; HCl to pH <2;no headspace	Three 40-mL VOC vials with Teflon®-lined cap	Analyze within 14 days of collection	1 per 20 samples (minimum 1)	1 per 20 samples (minimum 1)	NA	NA	1 per shipment of VOC samples	NA	1 per 20 samples
		Part 375 + TCL SVOCs	EPA 8270D	Cool to 4°C	Two 1-Liter amber glass	7 days to extract, 40 days after extraction to analysis							
		Part 375 + TAL Metals	EPA 6010C, EPA 7470A	HNO_3	250 ml plastic	6 months, except Mercury 28 days							
		Hexavalent Chromium	EPA 7196A	Cool to 4°C	250 ml plastic	24 hours				NA			
		Cyanide	SM 4500 C/E	NaOH plus 0.6g ascorbic acid	250 ml plastic	14 days							
		Part 375 + TCL Pesticides	EPA 8081B	Cool to 4°C	Two 1-Liter Amber Glass for Pesticides/PCB	7 days to extract, 40 days after extraction to analysis							
		PCBs	EPA 8082A	Cool to 4°C		7 days to extract, 40 days after extraction to analysis							
		PFAS	EPA 1633	Cool to 4°C	Two 250 mL HDPE	14 days to extract, 40 days after extraction to analysis				1 per day			
		1,4-dioxane	8270 SIM	Cool to 4°C	One 1 -Liter Amber Glass	7 days to extract, 40 days after extraction to analysis				NA			
Soil Vapor	Total VOCs, Oxygen, LEL, CO, and H_2S, with MultiGas Meter	TO-15 Listed VOCs	TO-15	Ambient Temperature	6-Liter Summa Canister	Analyze within 30 days of collection	NA	NA	NA	NA	NA	1 per 10 samples (minimum 1)	NA
Ambient Air	Total VOCs via PID						NA	NA	NA	NA			

Notes:
1. PID - Photoionization Detector
2. VOC - Volatile organic compound
3. EPA - Environmental Protection Agency
4. TCL - Target compound list
5. TAL - Target analyte list
6. ORP - Oxidation reduction potential
7. DO - Dissolved oxygen
8. LEL - Lower explosive limit
9. CO -Carbon monoxide
10. H_2S - Hydrogen sulfide
11. PFAS - Per-fluoroalkyl substances
12. HDPE - High-Density Polyethylene

ATTACHMENT D

SAMPLE NOMENCLATURE STANDARD OPERATING PROCEDURE

SOP #01 – Sample Nomenclature

INTRODUCTION

The Langan Environmental Group conducts an assortment of site investigations where samples (Vapor, Solids, and Aqueous) are collected and submitted to analytical laboratories for analysis. The results of which are then evaluated and entered into a data base allowing quick submittal to the state regulatory authority (New York State Division of Environmental Conservation [NYSDEC]). In addition, Langan is linking their data management system to graphic and analytical software to enable efficient evaluation of the data as well as creating client-ready presentational material.

SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) is applicable to the general framework for labeling vapor, solid (soil) and aqueous (groundwater) samples that will be submitted for laboratory analysis. The nomenclature being introduced is designed to meet the NYSDEC EQuIS standard and has been incorporated into Langan software scripts to assist project personnel in processing the data. While this SOP is applicable to all site investigation; unanticipated conditions may arise which may require considerable flexibility in complying with this SOP. Therefore, guidance provided in this SOP is presented in terms of general steps and strategies that should be applied; but deviation from this SOP must be reported to the Project Manager (PM) immediately.

GENERAL SAMPLE IDENTIFICATION CONSIDERATIONS

Sample Labels

All sample ware must have a label. Recall that when you are using the Encore™ samples (see below); they are delivered in plastic lined foil bags. You are to label the bags[1]:



All other samples containers including Terra Cores™ must be labeled with laboratory provided self-adhesive labels.

Quick Breakdown of Sample Format

The general format for sample nomenclature is:

[1]Both Alpha and York laboratories permit the combining of the three Encore™ into a single bag. This may not be appropriate for all laboratories so please confirm with the labs themselves

LLNN_ID

Where

LL is a grouping of two (2) to four (4) letters signifying the sample media source. In older nomenclature SOPs this portion of the sample identification is commonly referred to as the *Sample Investigation Code*

NN represents a two digit number identifying the specific sample location or sample sequence number

_ ***(underscore)*** is required between the sample lettering and numeric identification and additional modifying data that determines the date of sampling or the depth of the sample interval

ID is a modifier specific to the sample type media (depth of soil sample or date of groundwater sample)

LL – Sample Investigation Code

Langan has devised a list of two to four letters to insure a quick ability to identify the sample investigation.

Code	Investigation
AA	Ambient Air
DS	Drum
EPB	Endpoint Location - Bottom (Excavation)
EPSW	Endpoint Location - Sidewall (Excavation)
FP	Free Product
IA	Indoor Air
IDW	Investigation Derived Waste (Soil Pile)
MW	Monitoring Well (Permanent)
SB	Soil Boring
SG	Staff Gauge (Stream Gauging)
SL	Sludge
SV	Soil Vapor Point
SVE	Soil Vapor Extraction Well
SW	Surface Water
TMW	Temporary Monitoring Well
TP	Test Pit (Excavated Material from Test Pit Not Associated With Sidewall or Bottom Samples)
WC	Waste Characterization Boring
COMP	Composite Sample
TB	Trip Blank (QA/QC Sampling – All Investigations)
FB	Field Blank (QA/QC Sampling – All Investigations)
DUP	Duplicate (QA/QC Sampling – All Investigations)

NN – Numeric Identifier

The two digit number that follows the sample investigation code (LL) identifies the specific sample based on the soil boring, monitoring well, endpoint or other location identification. For a subset of samples

where there is no specific location identifier, the two digit number is the sequence number for the sample submitted. For example, an aqueous sample from a monitoring well identified as MW-1 would have the sample investigation code of MW and the numeric identifier as 01. Note there is no hyphen. The same can be done for soil borings, a soil sample collected from soil boring 9 (SB-9) would be have the LLNN identification of SB09 (again, no hyphen).

Note however that there is a subset of samples related to laboratory analytical quality assurance, among these includes TB, FB, and DUP. On many investigations, the Scope will require multiple collections of these types of samples, therefore the numerical number represents the sequence sample count where the first sample is 01, the second sample is 02, and the third sample is 03 and so on.

_ Underscore
The underscore is required. It separates the investigation code and numeric identifier from the modifier specific to the sample itself. Note that every effort should be made to insure that the underscore is clear on the sample label and chain of custody (COC).

ID – Modifier Specific to Type Media
Each sample investigation code and numeric identifier is further modified by an ID specific to the sample type media. In general, soil samples (soil borings or endpoint samples) use an ID that indicates the depth at which the sample was taken. Aqueous samples (groundwater or surface water samples) are identified by the date the sample was collected. Other types of samples including quality control (TB, FB, and DUP), Vapor samples (AA, IA, SV or SVE), other soil type samples (IDW, sludge, free product, drum, and others) are also identified by a date. The following rules apply to the ID when using sample depth or sample date.

Sample Depth
The sample depth must be whole numbers (no fractions) separated by a hyphen. Thus for a soil sample collected from the soil boring SB-1 from a depth of 6 feet to 8 feet, the sample would be identified as:

SB01_6-8

Unfortunately, the NYSDEC EQuIS system does not accept fractions. Therefore, if your sample interval is a fraction of a foot (6.5-7.5), round up to the larger interval (6-8).

Sample Date
The sample date is always in the format of MMDDYY. Note that the year is two digits. Thus for a groundwater sample collected on July 1, 2015 from the monitoring well MW-1, the sample would be identified as:

MW01_070115

Special Cases
There are a couple of specific sample types that require further explanation.

Endpoint Sampling
End point sidewall samples are sometimes modified by magnetic direction (N, S, E, and W). For example, the first sidewall endpoint sample from the north wall of an excavation at a depth of 5 feet would be written as:

EPSW01_N_5

Again, note that the N in the identification refers to north and is separated from the prefix investigation code/numeric identifier and ID modifier suffix by underscores.

Vapor Extraction Well Sample
As with the sidewall endpoint samples, the sample name is altered by inserting a middle modifier between the prefix and suffix of the sample name. The middle modifier is used to identify the source of the sample (inlet sample port, midpoint sample port or outlet sample port). For example the midpoint port of the vapor extraction well number 1 sampled on July 1, 2015 would be written as;

SVE01_MID_070115

Matrix Spike and Matrix Spike Duplicate
On occasion, a Langan investigation will collect a sample to be used to provide the lab with a site specific medium to spike to determine the quality of the analytical method. This special case of sampling requires additional information to be used in the sample name, specifically, a suffix specifying whether the sample is the matrix spike (MS) or the matrix spike duplicate (MSD). In the following example, the sample is collected from soil boring number 1 at a depth of 2-4 feet. For the matrix spike sample:

SB01_2-4_MS

and for the matrix spike duplicate sample:

SB01_2-4_MSD

Multiple Interval Groundwater Sampling
Although not currently a common practice, low flow sampling facilitates stratigraphic sampling of a monitoring well. If the scope requires stratigraphic sampling then groundwater samples will be labeled with a lower case letter following the well number. For example, placing the pump or sampling tube at 10 feet below surface in MW01 on July 1, 2015 would require the sample to be labeled as:

MW01a_070115

While a second sample where the pump or tubing intake is placed at 20 feet would be labeled as:

MW01b_070115

Note that it is important that you record what depth the intake for each sample represents in your field notes; as this information is going to be critical to interpreting the results.

ATTACHMENT E

PFAS SAMPLING PROTOCOL AND SOP

NEW YORK STATE OF OPPORTUNITY.

Department of Environmental Conservation

SAMPLING, ANALYSIS, AND ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

Under NYSDEC's Part 375 Remedial Programs

April 2023



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ERRATA SHEET for

SAMPLING, ANALYSIS, AND ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) Under NYSDEC's Part 375 Remedial Programs Issued January 17, 2020

Citation and Page Number	Current Text	Corrected Text	Date
Title of Appendix I, page 32	Appendix H	Appendix I	2/25/2020
Document Cover, page 1	Guidelines for Sampling and Analysis of PFAS	Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs	9/15/2020
Data Assessment and Application to Site Cleanup Page 3	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published	Until such time as Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published	3/28/2023
Water Sample Results Page 3	PFOA and PFOS should be further assessed and considered as potential contaminants of concern in groundwater or surface water if PFOA or PFOS is detected in any water sample at or above 10 ng/L (ppt) and is determined to be attributable to the site, either by a comparison of upgradient and downgradient levels, or the presence of soil source areas, as defined below.	NYSDEC has adopted ambient water quality guidance values for PFOA and PFOS. Groundwater samples should be compared to the human health criteria of 6.7 ng/l (ppt) for PFOA and 2.7 ng/l (ppt) for PFOS. These guidance values also include criteria for surface water for PFOS applicable for aquatic life, which may be applicable at some sites. Drinking water sample results should be compared to the NYS maximum contaminant level (MCL) of 10 ng/l (ppt).Analysis to determine if PFOA and PFOS concentrations are attributable to the site should include a comparison between upgradient and downgradient levels, and the presence of soil source areas, as defined below.	3/28/2023
Soil Sample Results Page 3	Soil cleanup objectives for PFOA and PFOS have been proposed in an upcoming revision to 6 NYCRR Part 375-6. Until SCOs are in effect, the following are to be used as guidance values:	NYSDEC will delay adding soil cleanup objectives for PFOA and PFOS to 6 NYCRR Part 375-6 until the PFAS rural soil background study has been completed. Until SCOs are in effect, the following are to be used as guidance values:	3/28/2023
Protection of Groundwater Page 3	PFOA (ppb) 1.1 PFOS (ppb) 3.7	PFOA (ppb) 0.8 PFOS (ppb) 1.0	3/28/2023

Citation and Page Number	Current Text	Corrected Text	Date
Footnote 2 Page 3	The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the guidance value for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).	The Protection of Groundwater values are based on the above referenced ambient groundwater guidance values. Details on that calculation are available in the following document, prepared for the February 2022 proposed changes to Part 375 (https://www.dec.ny.gov/docs/remediation_hudson_pdf/part375techsupport.pdf). The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the guidance value for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).	3/28/2023
Testing for Imported Soil Page 4	If the concentrations of PFOA and PFOS in leachate are at or above 10 ppt (the Maximum Contaminant Levels established for drinking water by the New York State Department of Health), then the soil is not acceptable.	If the concentrations of PFOA and PFOS in leachate are at or above the ambient water quality guidance values for groundwater, then the soil is not acceptable.	3/28/2023
Routine Analysis, page 9	"However, laboratories analyzing environmental samples…PFOA and PFOS in drinking water by EPA Method 537, 537.1 or ISO 25101."	"However, laboratories analyzing environmental samples…PFOA and PFOS in drinking water by EPA Method 537, 537.1, ISO 25101, or Method 533."	9/15/2020
Additional Analysis, page 9, new paragraph regarding soil parameters	None	"In cases where site-specific cleanup objectives for PFOA and PFOS are to be assessed, soil parameters, such as Total Organic Carbon (EPA Method 9060), soil pH (EPA Method 9045), clay content (percent), and cation exchange capacity (EPA Method 9081), should be included in the analysis to help evaluate factors affecting the leachability of PFAS in site soils."	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Data Assessment and Application to Site Cleanup Page 10	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFAS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Target levels for cleanup of PFAS in other media, including biota and sediment, have not yet been established by the DEC.	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Preliminary target levels for cleanup of PFOA and PFOS in other media, including biota and sediment, have not yet been established by the DEC.	9/15/2020
Water Sample Results Page 10	PFAS should be further assessed and considered as a potential contaminant of concern in groundwater or surface water (…) If PFAS are identified as a contaminant of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.	PFOA and PFOS should be further assessed and considered as potential contaminants of concern in groundwater or surface water (…) If PFOA and/or PFOS are identified as contaminants of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Soil Sample Results, page 10	"The extent of soil contamination for purposes of delineation and remedy selection should be determined by having certain soil samples tested by Synthetic Precipitation Leaching Procedure (SPLP) and the leachate analyzed for PFAS. Soil exhibiting SPLP results above 70 ppt for either PFOA or PFOS (individually or combined) are to be evaluated during the cleanup phase."	"Soil cleanup objectives for PFOA and PFOS will be proposed in an upcoming revision to 6 NYCRR Part 375-6. Until SCOs are in effect, the following are to be used as guidance values. " [Interim SCO Table] "PFOA and PFOS results for soil are to be compared against the guidance values listed above. These guidance values are to be used in determining whether PFOA and PFOS are contaminants of concern for the site and for determining remedial action objectives and cleanup requirements. Site-specific remedial objectives for protection of groundwater can also be presented for evaluation by DEC. Development of site-specific remedial objectives for protection of groundwater will require analysis of additional soil parameters relating to leachability. These additional analyses can include any or all the parameters listed above (soil pH, cation exchange capacity, etc.) and/or use of SPLP. As the understanding of PFAS transport improves, DEC welcomes proposals for site-specific remedial objectives for protection of groundwater. DEC will expect that those may be dependent on additional factors including soil pH, aqueous pH, % organic carbon, % Sand/Silt/Clay, soil cations: K, Ca, Mg, Na, Fe, Al, cation exchange capacity, and anion exchange capacity. Site-specific remedial objectives should also consider the dilution attenuation factor (DAF). The NJDEP publication on DAF can be used as a reference: https://www.nj.gov/dep/srp/guidance/rs/daf.pdf. "	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Testing for Imported Soil Page 11	Soil imported to a site for use in a soil cap, soil cover, or as backfill is to be tested for PFAS in general conformance with DER-10, Section 5.4(e) for the PFAS Analyte List (Appendix F) using the analytical procedures discussed below and the criteria in DER-10 associated with SVOCs. If PFOA or PFOS is detected in any sample at or above 1 µg/kg, then soil should be tested by SPLP and the leachate analyzed for PFAS. If the SPLP results exceed 10 ppt for either PFOA or PFOS (individually) then the source of backfill should be rejected, unless a site-specific exemption is provided by DER. SPLP leachate criteria is based on the Maximum Contaminant Levels proposed for drinking water by New York State's Department of Health, this value may be updated based on future Federal or State promulgated regulatory standards. Remedial parties have the option of analyzing samples concurrently for both PFAS in soil and in the SPLP leachate to minimize project delays. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.	Testing for PFAS should be included any time a full TAL/TCL analyte list is required. Results for PFOA and PFOS should be compared to the applicable guidance values. If PFOA or PFOS is detected in any sample at or above the guidance values then the source of backfill should be rejected, unless a site-specific exemption is provided by DER based on SPLP testing, for example. If the concentrations of PFOA and PFOS in leachate are at or above 10 ppt (the Maximum Contaminant Levels established for drinking water by the New York State Department of Health), then the soil is not acceptable. PFOA, PFOS and 1,4-dioxane are all considered semi-volatile compounds, so composite samples are appropriate for these compounds when sampling in accordance with DER-10, Table 5.4(e)10. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Footnotes	None	[1] TOP Assay analysis of highly contaminated samples, such as those from an AFFF (aqueous film-forming foam) site, can result in incomplete oxidation of the samples and an underestimation of the total perfluoroalkyl substances. [2] The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the soil cleanup objective for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).	9/15/2020
Additional Analysis, page 9	In cases… soil parameters, such as Total Organic Carbon (EPA Method 9060), soil…	In cases… soil parameters, such as Total Organic Carbon (Lloyd Kahn), soil…	1/8/2021
Appendix A, General Guidelines, fourth bullet	List the ELAP-approved lab(s) to be used for analysis of samples	List the ELAP- certified lab(s) to be used for analysis of samples	1/8/2021
Appendix E, Laboratory Analysis and Containers	Drinking water samples collected using this protocol are intended to be analyzed for PFAS by ISO Method 25101.	Drinking water samples collected using this protocol are intended to be analyzed for PFAS by EPA Method 537, 537.1, 533, or ISO Method 25101	1/8/2021
Water Sample Results Page 9	"In addition, further assessment of water may be warranted if either of the following screening levels are met: a. any other individual PFAS (not PFOA or PFOS) is detected in water at or above 100 ng/L; or b. total concentration of PFAS (including PFOA and PFOS) is detected in water at or above 500 ng/L"	Deleted	6/15/2021

Citation and Page Number	Current Text	Corrected Text	Date
Routine Analysis, Page XX	Currently, New York State Department of Health's Environmental Laboratory Approval Program (ELAP)… criteria set forth in the DER's laboratory guidelines for PFAS in non-potable water and solids (Appendix H - Laboratory Guidelines for Analysis of PFAS in Non-Potable Water and Solids).	Deleted	5/31/2022
Analysis and Reporting, Page XX	As of October 2020, the United States Environmental Protection Agency (EPA) does not have a validated method for analysis of PFAS for media commonly analyzed under DER remedial programs (non-potable waters, solids). DER has developed the following guidelines to ensure consistency in analysis and reporting of PFAS.	Deleted	5/31/2022
Routine Analysis, Page XX	LC-MS/MS analysis for PFAS using methodologies based on EPA Method 537.1 is the procedure to use for environmental samples. Isotope dilution techniques should be utilized for the analysis of PFAS in all media.	EPA Method 1633 is the procedure to use for environmental samples.	
Soil Sample Results, Page XX	Soil cleanup objectives for PFOA and PFOS will be proposed in an upcoming revision to 6 NYCRR Part 375-6	Soil cleanup objectives for PFOA and PFOS have been proposed in an upcoming revision to 6 NYCRR Part 375-6	
Appendix A	"Include in the text… LC-MS/MS for PFAS using methodologies based on EPA Method 537.1"	"Include in the text ….EPA Method 1633"	
Appendix A	"Laboratory should have ELAP certification for PFOA and PFOS in drinking water by EPA Method 537, 537.1, EPA Method 533, or ISO 25101"	Deleted	
Appendix B	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	

Citation and Page Number	Current Text	Corrected Text	Date
Appendix C	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	
Appendix D	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	
Appendix G		Updated to include all forty PFAS analytes in EPA Method 533	
Appendix H		Deleted	
Appendix I	Appendix I	Appendix H	
Appendix H	"These guidelines are intended to be used for the validation of PFAS analytical results for projects within the Division of Environmental Remediation (DER) as well as aid in the preparation of a data usability summary report."	"These guidelines are intended to be used for the validation of PFAS using EPA Method 1633 for projects within the Division of Environmental Remediation (DER)."	
Appendix H	"The holding time is 14 days…"	"The holding time is 28 days…"	
Appendix H, Initial Calibration	"The initial calibration should contain a minimum of five standards for linear fit…"	"The initial calibration should contain a minimum of six standards for linear fit…"	
Appendix H, Initial Calibration	Linear fit calibration curves should have an R^2 value greater than 0.990.	Deleted	
Appendix H, Initial Calibration Verification	Initial Calibration Verification Section	Deleted	
Appendix H	secondary Ion Monitoring Section	Deleted	
Appendix H	Branched and Linear Isomers Section	Deleted	

Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs

Objective

New York State Department of Environmental Conservation's Division of Environmental Remediation (DER) performs or oversees sampling of environmental media and subsequent analysis of PFAS as part of remedial programs implemented under 6 NYCRR Part 375. To ensure consistency in sampling, analysis, reporting, and assessment of PFAS, DER has developed this document which summarizes currently accepted procedures and updates previous DER technical guidance pertaining to PFAS.

Applicability

All work plans submitted to DEC pursuant to one of the remedial programs under Part 375 shall include PFAS sampling and analysis procedures that conform to the guidelines provided herein.

As part of a site investigation or remedial action compliance program, whenever samples of potentially affected media are collected and analyzed for the standard Target Analyte List/Target Compound List (TAL/TCL), PFAS analysis should also be performed. Potentially affected media can include soil, groundwater, surface water, and sediment. Based upon the potential for biota to be affected, biota sampling and analysis for PFAS may also be warranted as determined pursuant to a Fish and Wildlife Impact Analysis. Soil vapor sampling for PFAS is not required.

Field Sampling Procedures

DER-10 specifies technical guidance applicable to DER's remedial programs. Given the prevalence and use of PFAS, DER has developed "best management practices" specific to sampling for PFAS. As specified in DER-10 Chapter 2, quality assurance procedures are to be submitted with investigation work plans. Typically, these procedures are incorporated into a work plan, or submitted as a stand-alone document (e.g., a Quality Assurance Project Plan). Quality assurance guidelines for PFAS are listed in Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS.

Field sampling for PFAS performed under DER remedial programs should follow the appropriate procedures outlined for soils, sediments, or other solids (Appendix B), non-potable groundwater (Appendix C), surface water (Appendix D), public or private water supply wells (Appendix E), and fish tissue (Appendix F).

QA/QC samples (e.g. duplicates, MS/MSD) should be collected as specified in DER-10, Section 2.3(c). For sampling equipment coming in contact with aqueous samples only, rinsate or equipment blanks should be collected. Equipment blanks should be collected at a minimum frequency of one per day per site or one per twenty samples, whichever is more frequent.

Analysis and Reporting

The investigation work plan should describe analysis and reporting procedures, including laboratory analytical procedures for the methods discussed below. As specified in DER-10 Section 2.2, laboratories should provide a full Category B deliverable. In addition, a Data Usability Summary Report (DUSR) should be prepared by an independent, third-party data validator. Electronic data submissions should meet the requirements provided at: https://www.dec.ny.gov/chemical/62440.html.

DER has developed a *PFAS Analyte List* (Appendix G) for remedial programs to understand the nature of contamination at sites. It is expected that reported results for PFAS will include, at a minimum, all the compounds listed. If lab and/or matrix specific issues are encountered for any analytes, the DER project manager, in consultation with the DER chemist, will make case-by-case decisions as to whether certain analytes may be temporarily or permanently discontinued from analysis at each site. As with other contaminants that are analyzed for at a site, the *PFAS Analyte List* may be refined for future sampling events based on investigative findings.

Routine Analysis

EPA Method 1633 is the procedure to use for environmental samples. Reporting limits for PFOA and PFOS in aqueous samples should not exceed 2 ng/L. Reporting limits for PFOA and PFOS in solid samples should not exceed 0.5 µg/kg. Reporting limits for all other PFAS in aqueous and solid media should be as close to these limits as possible. If laboratories indicate that they are not able to achieve these reporting limits for the entire *PFAS Analyte List*, site-specific decisions regarding acceptance of elevated reporting limits for specific PFAS can be made by the DER project manager in consultation with the DER chemist. Data review guidelines were developed by DER to ensure data comparability and usability (Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids).

Additional Analysis

Additional laboratory methods for analysis of PFAS may be warranted at a site, such as the Synthetic Precipitation Leaching Procedure (SPLP) and Total Oxidizable Precursor Assay (TOP Assay).

In cases where site-specific cleanup objectives for PFOA and PFOS are to be assessed, soil parameters, such as Total Organic Carbon (Lloyd Kahn), soil pH (EPA Method 9045), clay content (percent), and cation exchange capacity (EPA Method 9081), should be included in the analysis to help evaluate factors affecting the leachability of PFAS in site soils.

SPLP is a technique used to determine the mobility of chemicals in liquids, soils and wastes, and may be useful in determining the need for addressing PFAS-containing material as part of the remedy. SPLP by EPA Method 1312 should be used unless otherwise specified by the DER project manager in consultation with the DER chemist.

Impacted materials can be made up of PFAS that are not analyzable by routine analytical methodology. A TOP Assay can be utilized to conceptualize the amount and type of oxidizable PFAS which could be liberated in the environment, which approximates the maximum concentration of perfluoroalkyl substances that could be generated if all polyfluoroalkyl substances were oxidized. For example, some polyfluoroalkyl substances may degrade or transform to form perfluoroalkyl substances (such as PFOA or PFOS), resulting in an increase in perfluoroalkyl substance concentrations as contaminated groundwater moves away from a source. The TOP Assay converts, through oxidation, polyfluoroalkyl substances (precursors) into perfluoroalkyl substances that can be detected by routine analytical methodology.[1]

[1] TOP Assay analysis of highly contaminated samples, such as those from an AFFF (aqueous film-forming foam) site, can result in incomplete oxidation of the samples and an underestimation of the total perfluoroalkyl substances.

Commercial laboratories have adopted methods which allow for the quantification of targeted PFAS in air and biota. The EPA's Office of Research and Development (ORD) is currently developing methods which allow for air emissions characterization of PFAS, including both targeted and non-targeted analysis of PFAS. Consult with the DER project manager and the DER chemist for assistance on analyzing biota/tissue and air samples.

Data Assessment and Application to Site Cleanup

Until such time as Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Preliminary target levels for cleanup of PFOA and PFOS in other media, including biota and sediment, have not yet been established by the DEC.

Water Sample Results

NYSDEC has adopted ambient water quality guidance values for PFOA and PFOS. Groundwater samples should be compared to the human health criteria of 6.7 ng/l (ppt) for PFOA and 2.7 ng/l (ppt) for PFOS. These human health criteria should also be applied to surface water that is used as a water supply. This guidance also includes criteria for surface water for PFOS applicable for aquatic life, which may be applicable at some sites. Drinking water sample results should be compared to the NYS maximum contaminant level (MCL) of 10 ng/l (ppt). Analysis to determine if PFOA and PFOS concentrations are attributable to the site should include a comparison between upgradient and downgradient levels, and the presence of soil source areas, as defined below.

If PFOA and/or PFOS are identified as contaminants of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.

Soil Sample Results

NYSDEC will delay adding soil cleanup objectives for PFOA and PFOS to 6 NYCRR Part 375-6 until the PFAS rural soil background study has been completed. Until SCOs are in effect, the following are to be used as guidance values:

Guidance Values for Anticipated Site Use	PFOA (ppb)	PFOS (ppb)
Unrestricted	0.66	0.88
Residential	6.6	8.8
Restricted Residential	33	44
Commercial	500	440
Industrial	600	440
Protection of Groundwater[2]	0.8	1.0

PFOA and PFOS results for soil are to be compared against the guidance values listed above. These guidance values are to be used in determining whether PFOA and PFOS are contaminants of concern for the site and for determining remedial action objectives and cleanup requirements. Site-specific remedial objectives for protection of groundwater can also be presented for evaluation by DEC. Development of site-specific remedial objectives for protection of groundwater will require analysis of additional soil parameters relating to leachability. These

[2] The Protection of Groundwater values are based on the above referenced ambient groundwater guidance values. Details on that calculation are available in the following document, prepared for the February 2022 proposed changes to Part 375 (https://www.dec.ny.gov/docs/remediation_hudson_pdf/part375techsupport.pdf). The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the guidance value for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).

additional analyses can include any or all the parameters listed above (soil pH, cation exchange capacity, etc.) and/or use of SPLP.

As the understanding of PFAS transport improves, DEC welcomes proposals for site-specific remedial objectives for protection of groundwater. DEC will expect that those may be dependent on additional factors including soil pH, aqueous pH, % organic carbon, % Sand/Silt/Clay, soil cations: K, Ca, Mg, Na, Fe, Al, cation exchange capacity, and anion exchange capacity. Site-specific remedial objectives should also consider the dilution attenuation factor (DAF). The NJDEP publication on DAF can be used as a reference: https://www.nj.gov/dep/srp/guidance/rs/daf.pdf.

Testing for Imported Soil

Testing for PFAS should be included any time a full TAL/TCL analyte list is required. Results for PFOA and PFOS should be compared to the applicable guidance values. If PFOA or PFOS is detected in any sample at or above the guidance values then the source of backfill should be rejected, unless a site-specific exemption is provided by DER based on SPLP testing, for example. If the concentrations of PFOA and PFOS in leachate are at or above the ambient water quality guidance values for groundwater, then the soil is not acceptable.

PFOA, PFOS and 1,4-dioxane are all considered semi-volatile compounds, so composite samples are appropriate for these compounds when sampling in accordance with DER-10, Table 5.4(e)10. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.

Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS

The following guidelines (general and PFAS-specific) can be used to assist with the development of a QAPP for projects within DER involving sampling and analysis of PFAS.

General Guidelines in Accordance with DER-10

- Document/work plan section title – Quality Assurance Project Plan
- Summarize project scope, goals, and objectives
- Provide project organization including names and resumes of the project manager, Quality Assurance Officer (QAO), field staff, and Data Validator
    - The QAO should not have another position on the project, such as project or task manager, that involves project productivity or profitability as a job performance criterion
- List the ELAP certified lab(s) to be used for analysis of samples
- Include a site map showing sample locations
- Provide detailed sampling procedures for each matrix
- Include Data Quality Usability Objectives
- List equipment decontamination procedures
- Include an "Analytical Methods/Quality Assurance Summary Table" specifying:
    - Matrix type
    - Number or frequency of samples to be collected per matrix
    - Number of field and trip blanks per matrix
    - Analytical parameters to be measured per matrix
    - Analytical methods to be used per matrix with minimum reporting limits
    - Number and type of matrix spike and matrix spike duplicate samples to be collected
    - Number and type of duplicate samples to be collected
    - Sample preservation to be used per analytical method and sample matrix
    - Sample container volume and type to be used per analytical method and sample matrix
    - Sample holding time to be used per analytical method and sample matrix
- Specify Category B laboratory data deliverables and preparation of a DUSR

Specific Guidelines for PFAS

- Include in the text that sampling for PFAS will take place
- Include in the text that PFAS will be analyzed by EPA Method 1633
- Include the list of PFAS compounds to be analyzed (*PFAS Analyte List*)
- Include the laboratory SOP for PFAS analysis
- List the minimum method-achievable Reporting Limits for PFAS
    - Reporting Limits should be less than or equal to:
        - Aqueous – 2 ng/L (ppt)
        - Solids – 0.5 µg/kg (ppb)
- Include the laboratory Method Detection Limits for the PFAS compounds to be analyzed
-
- Include detailed sampling procedures
    - Precautions to be taken
    - Pump and equipment types
    - Decontamination procedures
    - Approved materials only to be used
- Specify that regular ice only will be used for sample shipment
- Specify that equipment blanks should be collected at a minimum frequency of 1 per day per site for each matrix

Appendix B - Sampling Protocols for PFAS in Soils, Sediments and Solids

General

The objective of this protocol is to give general guidelines for the collection of soil, sediment and other solid samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Containers

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in to contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel spoon
- stainless steel bowl
- steel hand auger or shovel without any coatings

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Sampling is often conducted in areas where a vegetative turf has been established. In these cases, a pre-cleaned trowel or shovel should be used to carefully remove the turf so that it may be replaced at the conclusion of sampling. Surface soil samples (e.g. 0 to 6 inches below surface) should then be collected using a pre-cleaned, stainless steel spoon. Shallow subsurface soil samples (e.g. 6 to ~36 inches below surface) may be collected by digging a hole using a pre-cleaned hand auger or shovel. When the desired subsurface depth is reached, a pre-cleaned hand auger or spoon shall be used to obtain the sample.

When the sample is obtained, it should be deposited into a stainless steel bowl for mixing prior to filling the sample containers. The soil should be placed directly into the bowl and mixed thoroughly by rolling the material into the middle until the material is homogenized. At this point the material within the bowl can be placed into the laboratory provided container.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A soil log or sample log shall document the location of the sample/borehole, depth of the sample, sampling equipment, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix C - Sampling Protocols for PFAS in Monitoring Wells

General

The objective of this protocol is to give general guidelines for the collection of groundwater samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including plumbers tape and sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel inertia pump with HDPE tubing
- peristaltic pump equipped with HDPE tubing and silicone tubing
- stainless steel bailer with stainless steel ball
- bladder pump (identified as PFAS-free) with HDPE tubing

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Monitoring wells should be purged in accordance with the sampling procedure (standard/volume purge or low flow purge) identified in the site work plan, which will determine the appropriate time to collect the sample. If sampling using standard purge techniques, additional purging may be needed to reduce turbidity levels, so samples contain a limited amount of sediment within the sample containers. Sample containers that contain sediment may cause issues at the laboratory, which may result in elevated reporting limits and other issues during the sample preparation that can compromise data usability. Sampling personnel should don new nitrile gloves prior to sample collection due to the potential to contact PFAS containing items (not related to the sampling equipment) during the purging activities.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Collect one equipment blank per day per site and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Additional equipment blank samples may be collected to assess other equipment that is utilized at the monitoring well
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A purge log shall document the location of the sample, sampling equipment, groundwater parameters, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix D - Sampling Protocols for PFAS in Surface Water

General

The objective of this protocol is to give general guidelines for the collection of surface water samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel cup

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Where conditions permit, (e.g. creek or pond) sampling devices (e.g. stainless steel cup) should be rinsed with site medium to be sampled prior to collection of the sample. At this point the sample can be collected and poured into the sample container.

If site conditions permit, samples can be collected directly into the laboratory container.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Collect one equipment blank per day per site and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A sample log shall document the location of the sample, sampling equipment, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix E - Sampling Protocols for PFAS in Private Water Supply Wells

General

The objective of this protocol is to give general guidelines for the collection of water samples from private water supply wells (with a functioning pump) for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Drinking water samples collected using this protocol are intended to be analyzed for PFAS by EPA Method 537, 537.1, 533, or ISO Method 25101. The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials (e.g. plumbers tape), including sample bottle cap liners with a PTFE layer.

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Locate and assess the pressure tank and determine if any filter units are present within the building. Establish the sample location as close to the well pump as possible, which is typically the spigot at the pressure tank. Ensure sampling equipment is kept clean during sampling as access to the pressure tank spigot, which is likely located close to the ground, may be obstructed and may hinder sample collection.

Prior to sampling, a faucet downstream of the pressure tank (e.g., washroom sink) should be run until the well pump comes on and a decrease in water temperature is noted which indicates that the water is coming from the well. If the homeowner is amenable, staff should run the water longer to purge the well (15+ minutes) to provide a sample representative of the water in the formation rather than standing water in the well and piping system including the pressure tank. At this point a new pair of nitrile gloves should be donned and the sample can be collected from the sample point at the pressure tank.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- If equipment was used, collect one equipment blank per day per site and a minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers.
- A field reagent blank (FRB) should be collected at a rate of one per 20 samples. The lab will provide a FRB bottle containing PFAS free water and one empty FRB bottle. In the field, pour the water from the one bottle into the empty FRB bottle and label appropriately.
- Request appropriate data deliverable (Category B) and an electronic data deliverable
- For sampling events where multiple private wells (homes or sites) are to be sampled per day, it is acceptable to collect QC samples at a rate of one per 20 across multiple sites or days.

Documentation

A sample log shall document the location of the private well, sample point location, owner contact information, sampling equipment, purge duration, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate and available (e.g. well construction, pump type and location, yield, installation date). Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appendix F - Sampling Protocols for PFAS in Fish

This appendix contains a copy of the current SOP developed by the Division of Fish and Wildlife (DFW) entitled "General Fish Handling Procedures for Contaminant Analysis" (Ver. 8). This SOP should be followed when collecting fish for contaminant analysis. Note, however, that the Bureau of Ecosystem Health will not be supplying bags or tags. All supplies are the responsibility of the collector

Procedure Name: General Fish Handling Procedures for Contaminant Analysis

Number: FW-005

Purpose: This procedure describes data collection, fish processing and delivery of fish collected for contaminant monitoring. It contains the chain of custody and collection record forms that should be used for the collections.

Organization: Environmental Monitoring Section
Bureau of Ecosystem Health
Division of Fish and Wildlife (DFW)
New York State Department of Environmental Conservation (NYSDEC)
625 Broadway
Albany, New York 12233-4756

Version: 8

Previous Version Date: 21 March 2018

Summary of Changes to this Version: Updated bureau name to Bureau of Ecosystem Health. Added direction to list the names of all field crew on the collection record. Minor formatting changes on chain of custody and collection records.

Originator or Revised by: Wayne Richter, Jesse Becker

Date: 26 April 2019

Quality Assurance Officer and Approval Date: Jesse Becker, 26 April 2019

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GENERAL FISH HANDLING PROCEDURES FOR CONTAMINANT ANALYSES

A. Original copies of all continuity of evidence (i.e., Chain of Custody) and collection record forms must accompany delivery of fish to the lab. A copy shall be directed to the Project Leader or as appropriate, Wayne Richter. All necessary forms will be supplied by the Bureau of Ecosystem Health. Because some samples may be used in legal cases, it is critical that each section is filled out completely. Each Chain of Custody form has three main sections:

   1. The top box is to be filled out **and signed** by the person responsible for the fish collection (e.g., crew leader, field biologist, researcher). This person is responsible for delivery of the samples to DEC facilities or personnel (e.g., regional office or biologist).

   2. The second section is to be filled out **and signed** by the person responsible for the collections while being stored at DEC, before delivery to the analytical lab. This may be the same person as in (1), but it is still required that they complete the section. Also important is the **range of identification numbers** (i.e., tag numbers) included in the sample batch.

   3. Finally, the bottom box is to record any transfers between DEC personnel and facilities. Each subsequent transfer should be **identified, signed, and dated**, until laboratory personnel take possession of the fish.

B. The following data are required on each **Fish Collection Record** form:

   1. Project and Site Name.

   2. DEC Region.

   3. All personnel (and affiliation) involved in the collection.

   4. Method of collection (gill net, hook and line, etc.)

   5. Preservation Method.

C. The following data are to be taken on each fish collected and recorded on the **Fish Collection Record** form:

   1. Tag number - Each specimen is to be individually jaw tagged at time of collection with a unique number. Make sure the tag is turned out so that the number can be read without opening the bag. Use tags in sequential order. For small fish or composite samples place the tag inside the bag with the samples. The Bureau of Ecosystem Health can supply the tags.

   2. Species identification (please be explicit enough to enable assigning genus and species). Group fish by species when processing.

   3. Date collected.

   4. Sample location (waterway and nearest prominent identifiable landmark).

   5. Total length (nearest mm or smallest sub-unit on measuring instrument) and weight (nearest g or

smallest sub-unit of weight on weighing instrument). Take all measures as soon as possible with calibrated, protected instruments (e.g. from wind and upsets) and prior to freezing.

6. Sex - fish may be cut enough to allow sexing or other internal investigation, but do not eviscerate. Make any incision on the right side of the belly flap or exactly down the midline so that a left-side fillet can be removed.

D. General data collection recommendations:

1. It is helpful to use an ID or tag number that will be unique. It is best to use metal striped bass or other uniquely numbered metal tags. If uniquely numbered tags are unavailable, values based on the region, water body and year are likely to be unique: for example, R7CAY11001 for Region 7, Cayuga Lake, 2011, fish 1. If the fish are just numbered 1 through 20, we have to give them new numbers for our database, making it more difficult to trace your fish to their analytical results and creating an additional possibility for errors.

2. Process and record fish of the same species sequentially. Recording mistakes are less likely when all fish from a species are processed together. Starting with the bigger fish species helps avoid missing an individual.

3. If using Bureau of Ecosystem Health supplied tags or other numbered tags, use tags in sequence so that fish are recorded with sequential Tag Numbers. This makes data entry and login at the lab and use of the data in the future easier and reduces keypunch errors.

4. Record length and weight as soon as possible after collection and before freezing. Other data are recorded in the field upon collection. An age determination of each fish is optional, but if done, it is recorded in the appropriate “Age” column.

5. For composite samples of small fish, record the number of fish in the composite in the Remarks column. Record the length and weight of each individual in a composite. All fish in a composite sample should be of the same species and members of a composite should be visually matched for size.

6. Please submit photocopies of topographic maps or good quality navigation charts indicating sampling locations. GPS coordinates can be entered in the Location column of the collection record form in addition to or instead for providing a map. These records are of immense help to us (and hopefully you) in providing documented location records which are not dependent on memory and/or the same collection crew. In addition, they may be helpful for contaminant source trackdown and remediation/control efforts of the Department.

7. When recording data on fish measurements, it will help to ensure correct data recording for the data recorder to call back the numbers to the person making the measurements.

E. Each fish is to be placed in its own individual plastic bag. For small fish to be analyzed as a composite, put all of the fish for one composite in the same bag but use a separate bag for each composite. It is important to individually bag the fish to avoid difficulties or cross contamination when processing the fish for chemical analysis. Be sure to include the fish’s tag number inside the bag, preferably attached to the fish with the tag number turned out so it can be read. Tie or otherwise secure the bag closed. **The Bureau of Ecosystem Health will supply the bags.** If necessary, food grade bags may be procured from a suitable vendor (e.g., grocery store). It is preferable to redundantly label each bag with a manila tag tied between the knot and the body of the bag. This tag should be labeled with the project name, collection location, tag number, collection date, and fish species. If scales are collected, the scale envelope should be labeled with

the same information.

F. Groups of fish, by species, are to be placed in one large plastic bag per sampling location. **The Bureau of Ecosystem Health will supply the larger bags.** Tie or otherwise secure the bag closed. Label the site bag with a manila tag tied between the knot and the body of the bag. The tag should contain: project, collection location, collection date, species and **tag number ranges**. Having this information on the manila tag enables lab staff to know what is in the bag without opening it.

G. Do not eviscerate, fillet or otherwise dissect the fish unless specifically asked to. If evisceration or dissection is specified, the fish must be cut along the exact midline or on the right side so that the left side fillet can be removed intact at the laboratory. If filleting is specified, the procedure for taking a standard fillet (SOP PREPLAB 4) must be followed, including removing scales.

H. Special procedures for PFAS: Unlike legacy contaminants such as PCBs, which are rarely found in day to day life, PFAS are widely used and frequently encountered. Practices that avoid sample contamination are therefore necessary. While no standard practices have been established for fish, procedures for water quality sampling can provide guidance. The following practices should be used for collections when fish are to be analyzed for PFAS:

No materials containing Teflon.
No Post-it notes.
No ice packs; only water ice or dry ice.
Any gloves worn must be powder free nitrile.
No Gore-Tex or similar materials (Gore-Tex is a PFC with PFOA used in its manufacture).
No stain repellent or waterproof treated clothing; these are likely to contain PFCs.
Avoid plastic materials, other than HDPE, including clipboards and waterproof notebooks.
Wash hands after handling any food containers or packages as these may contain PFCs.
Keep pre-wrapped food containers and wrappers isolated from fish handling.
Wear clothing washed at least six times since purchase.
Wear clothing washed without fabric softener.
Staff should avoid cosmetics, moisturizers, hand creams and similar products on the day of sampling as many of these products contain PFCs (Fujii et al. 2013). Sunscreen or insect repellent should not contain ingredients with “fluor” in their name. Apply any sunscreen or insect repellent well downwind from all materials. Hands must be washed after touching any of these products.

I. All fish must be kept at a temperature <45° F (<8° C) immediately following data processing. As soon as possible, freeze at -20° C ± 5° C. Due to occasional freezer failures, daily freezer temperature logs are required. The freezer should be locked or otherwise secured to maintain chain of custody.

J. In most cases, samples should be delivered to the Analytical Services Unit at the Hale Creek field station. Coordinate delivery with field station staff and send copies of the collection records, continuity of evidence forms and freezer temperature logs to the field station. For samples to be analyzed elsewhere, non-routine collections or other questions, contact Wayne Richter, Bureau of Ecosystem Health, NYSDEC, 625 Broadway, Albany, New York 12233-4756, 518-402-8974, or the project leader about sample transfer. Samples will then be directed to the analytical facility and personnel noted on specific project descriptions.

K. A recommended equipment list is at the end of this document.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name _____ DEC Region _____

Collections made by (include all crew) _____

Sampling Method: □Electrofishing □Gill netting □Trap netting □Trawling □Seining □Angling □Other _____

Preservation Method: □Freezing □Other _____ Notes (SWFDB survey number): _____

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH ( )	WEIGHT ( )	REMARKS

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHAIN OF CUSTODY

I, _____, of _____ collected the
(Print Name) (Print Business Address)

following on _____, 20____ from _____
(Date) (Water Body)

in the vicinity of _____
(Landmark, Village, Road, etc.)

Town of _____, in _____ County.

Item(s) _____

_____

Said sample(s) were in my possession and handled according to standard procedures provided to me prior to collection. The sample(s) were placed in the custody of a representative of the New York State Department of Environmental Conservation on _____, 20_____.

_____ _____
Signature Date

I, _____, received the above mentioned sample(s) on the date specified and assigned identification number(s) _____ to the sample(s). I have recorded pertinent data for the sample(s) on the attached collection records. The sample(s) remained in my custody until subsequently transferred, prepared or shipped at times and on dates as attested to below.

_____ _____
Signature Date

SECOND RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
THIRD RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
FOURTH RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
RECEIVED IN LABORATORY BY (Print Name)	TIME & DATE	REMARKS
SIGNATURE	UNIT	
LOGGED IN BY (Print Name)	TIME & DATE	ACCESSION NUMBERS
SIGNATURE	UNIT	

richter: revised 21 April 2014; becker: 23 March 2017, 26 April, 2019

NOTICE OF WARRANTY

By signature to the chain of custody (reverse), the signatory warrants that the information provided is truthful and accurate to the best of his/her ability. The signatory affirms that he/she is willing to testify to those facts provided and the circumstances surrounding the same. Nothing in this warranty or chain of custody negates responsibility nor liability of the signatories for the truthfulness and accuracy of the statements provided.

HANDLING INSTRUCTIONS

On day of collection, collector(s) name(s), address(es), date, geographic location of capture (attach a copy of topographic map or navigation chart), species, number kept of each species, and description of capture vicinity (proper noun, if possible) along with name of Town and County must be indicated on reverse.

Retain organisms in manila tagged plastic bags to avoid mixing capture locations. Note appropriate information on each bag tag.

Keep samples as cool as possible. Put on ice if fish cannot be frozen within 12 hours. If fish are held more than 24 hours without freezing, they will not be retained or analyzed.

Initial recipient (either DEC or designated agent) of samples from collector(s) is responsible for obtaining and recording information on the collection record forms which will accompany the chain of custody. This person will seal the container using packing tape and writing his signature, the time and the date across the tape onto the container with indelible marker. Any time a seal is broken, for whatever purpose, the incident must be recorded on the Chain of Custody (reason, time, and date) in the purpose of transfer block. Container then is resealed using new tape and rewriting signature, with time and date.

EQUIPMENT LIST

Scale or balance of appropriate capacity for the fish to be collected.

Fish measuring board.

Plastic bags of an appropriate size for the fish to be collected and for site bags.

Individually numbered metal tags for fish.

Manila tags to label bags.

Small envelops, approximately 2” x 3.5”, if fish scales are to be collected.

Knife for removing scales.

Chain of custody and fish collection forms.

Clipboard.

Pens or markers.

Paper towels.

Dish soap and brush.

Bucket.

Cooler.

Ice.

Duct tape.

Appendix G – PFAS Analyte List

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonic acids	Perfluorobutanesulfonic acid	PFBS	375-73-5
	Perfluoropentanesulfonic acid	PFPeS	2706-91-4
	Perfluorohexanesulfonic acid	PFHxS	355-46-4
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanesulfonic acid	PFOS	1763-23-1
	Perfluorononanesulfonic acid	PFNS	68259-12-1
	Perfluorodecanesulfonic acid	PFDS	335-77-3
	Perfluorododecanesulfonic acid	PFDoS	79780-39-5
Perfluoroalkyl carboxylic acids	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	PFHpA	375-85-9
	Perfluorooctanoic acid	PFOA	335-67-1
	Perfluorononanoic acid	PFNA	375-95-1
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUnA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTeDA	376-06-7
Per- and Polyfluoroether carboxylic acids	Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
	4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
	Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
	Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
	Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
Fluorotelomer sulfonic acids	4:2 Fluorotelomer sulfonic acid	4:2-FTS	757124-72-4
	6:2 Fluorotelomer sulfonic acid	6:2-FTS	27619-97-2
	8:2 Fluorotelomer sulfonic acid	8:2-FTS	39108-34-4
Fluorotelomer carboxylic acids	3:3 Fluorotelomer carboxylic acid	3:3 FTCA	356-02-5
	5:3 Fluorotelomer carboxylic acid	5:3 FTCA	914637-49-3
	7:3 Fluorotelomer carboxylic acid	7:3 FTCA	812-70-4
Perfluorooctane sulfonamides	Perfluorooctane sulfonamide	PFOSA	754-91-6
	N-methylperfluorooctane sulfonamide	NMeFOSA	31506-32-8
	N-ethylperfluorooctane sulfonamide	NEtFOSA	4151-50-2
Perfluorooctane sulfonamidoacetic acids	N-methylperfluorooctane sulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethylperfluorooctane sulfonamidoacetic acid	N-EtFOSAA	2991-50-6
Perfluorooctane sulfonamide ethanols	N-methylperfluorooctane sulfonamidoethanol	MeFOSE	24448-09-7
	N-ethylperfluorooctane sulfonamidoethanol	EtFOSE	1691-99-2

Group	Chemical Name	Abbreviation	CAS Number
Ether sulfonic acids	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)	9Cl-PF3ONS	756426-58-1
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	11Cl-PF3OUdS	763051-92-9
	Perfluoro(2-ethoxyethane) sulfonic acid	PFEESA	113507-82-7

Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids

General

These guidelines are intended to be used for the validation of PFAS using EPA Method 1633 for projects within the Division of Environmental Remediation (DER). Data reviewers should understand the methodology and techniques utilized in the analysis. Consultation with the end user of the data may be necessary to assist in determining data usability based on the data quality objectives in the Quality Assurance Project Plan. A familiarity with the laboratory's Standard Operating Procedure may also be needed to fully evaluate the data. If you have any questions, please contact DER's Quality Assurance Officer, Dana Barbarossa, at dana.barbarossa@dec.ny.gov.

Preservation and Holding Time

Samples should be preserved with ice to a temperature of less than 6°C upon arrival at the lab. The holding time is 28 days to extraction for aqueous and solid samples. The time from extraction to analysis for aqueous samples is 28 days and 40 days for solids.

Temperature greatly exceeds 6ºC upon arrival at the lab*	Use professional judgement to qualify detects and non-detects as estimated or rejected
Holding time exceeding 28 days to extraction	Use professional judgement to qualify detects and non-detects as estimated or rejected if holding time is grossly exceeded

*Samples that are delivered to the lab immediately after sampling may not meet the thermal preservation guidelines. Samples are considered acceptable if they arrive on ice or an attempt to chill the samples is observed.

Initial Calibration

The initial calibration should contain a minimum of six standards for linear fit and six standards for a quadratic fit. The relative standard deviation (RSD) for a quadratic fit calibration should be less than 20%.

The low-level calibration standard should be within 50% - 150% of the true value, and the mid-level calibration standard within 70% - 130% of the true value.

%RSD >20%	J flag detects and UJ non detects

Continuing Calibration Verification

Continuing calibration verification (CCV) checks should be analyzed at a frequency of one per ten field samples. If CCV recovery is very low, where detection of the analyte could be in question, ensure a low level CCV was analyzed and use to determine data quality.

CCV recovery <70 or >130%	J flag results

Blanks

There should be no detections in the method blanks above the reporting limits. Equipment blanks, field blanks, rinse blanks etc. should be evaluated in the same manner as method blanks. Use the most contaminated blank to evaluate the sample results.

Blank Result	Sample Result	Qualification
Any detection	<Reporting limit	Qualify as ND at reporting limit
Any detection	>Reporting Limit and >10x the blank result	No qualification
>Reporting limit	>Reporting limit and <10x blank result	J+ biased high

Field Duplicates

A blind field duplicate should be collected at rate of one per twenty samples. The relative percent difference (RPD) should be less than 30% for analyte concentrations greater than two times the reporting limit. Use the higher result for final reporting.

RPD >30%	Apply J qualifier to parent sample

Lab Control Spike

Lab control spikes should be analyzed with each extraction batch or one for every twenty samples. In the absence of lab derived criteria, use 70% - 130% recovery criteria to evaluate the data.

Recovery <70% or >130% (lab derived criteria can also be used)	Apply J qualifier to detects and UJ qualifier to non detects

Matrix Spike/Matrix Spike Duplicate

One matrix spike and matrix spike duplicate should be collected at a rate of one per twenty samples. Use professional judgement to reject results based on out of control MS/MSD recoveries.

Recovery <70% or >130% (lab derived criteria can also be used)	Apply J qualifier to detects and UJ qualifier to non detects of parent sample only
RPD >30%	Apply J qualifier to detects and UJ qualifier to non detects of parent sample only

Extracted Internal Standards (Isotope Dilution Analytes)

Problematic analytes (e.g. PFBA, PFPeA, fluorotelomer sulfonates) can have wider recoveries without qualification. Qualify corresponding native compounds with a J flag if outside of the range.

Recovery <50% or >150%	Apply J qualifier
Recovery <25% or >150% for poor responding analytes	Apply J qualifier
Isotope Dilution Analyte (IDA) Recovery <10%	Reject results

Signal to Noise Ratio

The signal to noise ratio for the quantifier ion should be at least 3:1. If the ratio is less than 3:1, the peak is discernable from the baseline noise and symmetrical, the result can be reported. If the peak appears to be baseline noise and/or the shape is irregular, qualify the result as tentatively identified.

Reporting Limits

If project-specific reporting limits were not met, please indicate that in the report along with the reason (e.g. over dilution, dilution for non-target analytes, high sediment in aqueous samples).

Peak Integrations

Target analyte peaks should be integrated properly and consistently when compared to standards. Ensure branched isomer peaks are included for PFAS where standards are available. Inconsistencies should be brought to the attention of the laboratory or identified in the data review summary report.

Method 1633 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, Oil and Tissue Samples by LC-MS/MS

References: Method 1633 - Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, Oil and Tissue Samples by LC-MS/MS (2nd Draft -June 2022)

DOD QSM (US Department of Defense Quality Systems Manual for Environmental Laboratories, version 5.4, 20221)

1. Scope and Application

Matrices: Drinking water, Non-potable Water, Tissues, Oils, Biosolids and Solid Matrices

Definitions: Refer to Alpha Analytical Quality Manual.

1.1 Method 1633 is for use in the Clean Water Act (CWA) for the determination of the per- and polyfluoroalkyl substances (PFAS) in Table 1 in aqueous, solid (soil, biosolids, sediment) and tissue samples by liquid chromatography/mass spectrometry (LC-MS/MS).

1.2 The method calibrates and quantifies PFAS analytes using isotopically labeled standards. Where linear and branched isomers are present in the sample and either qualitative or quantitative standards containing branched and linear isomers are commercially available, the PFAS analyte is reported as a single analyte consisting of the sum of the linear and branched isomer concentrations

1.3 This is a liquid chromatography/tandem mass spectrometry (LC/MS/MS) method for the determination of selected perfluorinated alkyl substances (PFAS) in Non-Drinking Water, tissue soil and biosolid Matrices. Accuracy and precision data have been generated for the compounds listed in Table 1.

1.4 The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

1.5 This method is restricted to use by or under the supervision of analysts experienced in the operation of the LC/MS/MS and in the interpretation of LC/MS/MS data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

2. Summary of Method

2.1 Environmental samples are prepared and extracted using method-specific procedures. Sample extracts are subjected to cleanup procedures designed to remove interferences. Analyses of the sample extracts are conducted by LC-MS/MS in the multiple reaction monitoring (MRM) mode. Sample concentrations are determined by isotope dilution or

extracted internal standard quantification using isotopically labeled compounds added to the samples before extraction.

2.2 Aqueous samples are spiked with isotopically labeled standards, extracted using solid-phase extraction (SPE) cartridges and undergo cleanup using carbon before analysis.

2.3 Solid and Oil samples are spiked with isotopically labeled standards, extracted into basic methanol, and cleaned up by carbon and SPE cartridges before analysis

2.4 Tissue samples are spiked with isotopically labeled standards, extracted in potassium hydroxide and acetonitrile followed by basic methanol, and cleaned up by carbon and SPE cartridges before analysis.

2.5 A sample extract is injected into an LC equipped with a C18 column that is interfaced to an MS/MS). The analytes are separated and identified by comparing the acquired mass spectra and retention times to reference spectra and retention times for calibration standards acquired under identical LC/MS/MS conditions. The concentration of each analyte is determined by using the isotope dilution technique. Extracted Internal Standards (EIS) analytes are used to monitor the extraction efficiency of the method analytes.

2.6 Method Modifications from Reference

N/A

3. Reporting Limits

The reporting limit for PFAS's are listed in Table 8.

4. Interferences

4.1 PFAS standards, extracts and samples should not come in contact with any glass containers or pipettes as these analytes can potentially adsorb to glass surfaces. PFAS analyte and EIS standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers.

4.2 Method interferences may be caused by contaminants in solvents, reagents (including reagent water), sample bottles and caps, and other sample processing hardware that lead to discrete artifacts and/or elevated baselines in the chromatograms. The method analytes in this method can also be found in many common laboratory supplies and equipment, such as PTFE (polytetrafluoroethylene) products, LC solvent lines, methanol, aluminum foil, SPE sample transfer lines, etc. All items such as these must be routinely demonstrated to be free from interferences (less than 1/2 the RL for each method analyte) under the conditions of the analysis by analyzing laboratory reagent blanks as described in Section 9.1. Subtracting blank values from sample results is not permitted.

4.3 Matrix interferences may be caused by contaminants that are co-extracted from the sample. The extent of matrix interferences will vary considerably from source to source, depending upon the nature of the water. Humic and/or fulvic material can be co-extracted during SPE and high levels can cause enhancement and/or suppression in the electrospray ionization

source or low recoveries on the SPE sorbent. Total organic carbon (TOC) is a good indicator of humic content of the sample.

4.4 SPE cartridges can be a source of interferences. The analysis of field and laboratory reagent blanks can provide important information regarding the presence or absence of such interferences. Brands and lots of SPE devices should be tested to ensure that contamination does not preclude analyte identification and quantitation.

5. Health and Safety

5.1 The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

5.2 All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

5.3 PFOA has been described as “likely to be carcinogenic to humans.” Pure standard materials and stock standard solutions of these method analytes should be handled with suitable protection to skin and eyes, and care should be taken not to breathe the vapors or ingest the materials.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection for Aqueous Samples

6.1.1 Samples must be collected in two (2) 500-mL or 250-mL high density polyethylene (HDPE) container with an unlined plastic screw cap. All sample containers must have linerless HDPE or polypropylene caps.

6.1.2 The sample handler must wash their hands before sampling and wear nitrile gloves while filling and sealing the sample bottles. PFAS contamination during sampling can occur from a number of common sources, such as food packaging and certain foods and beverages. Proper hand washing and wearing nitrile gloves will aid in minimizing this type of accidental contamination of the samples.

6.1.3 Open the tap and allow the system to flush until the water temperature has stabilized (approximately 3 to 5 min). Collect samples from the flowing system.

6.1.4 Fill sample bottles. Samples do not need to be collected headspace free.

6.1.5 After collecting the sample and cap the bottle. Keep the sample sealed from time of collection until extraction.

6.1.6 Maintain all aqueous samples protected from light at 0 - 6 ºC from the time of collection until shipped to the laboratory. Samples must be shipped as soon as practical with sufficient ice to maintain the sample temperature below 6 ºC during transport and be received by the laboratory within 48 hours of collection. The laboratory must confirm that the sample temperature is 0 - 6 ºC upon receipt.

Once received by the laboratory, the samples must be stored at ≤ -20 ºC until sample preparation.

6.2 Sample Collection for Solid and Oil samples.

6.2.1 Grab samples are collected in polypropylene containers. Sample containers and contact surfaces containing PTFE shall be avoided. Samples should fill no more than ¾ full.

6.2.2 Maintain solid samples protected from light (in HDPE containers) at 0 - 6 ºC from the time of collection until receipt at the laboratory. The laboratory must confirm that the sample temperature is 0 - 6 ºC upon receipt. Once received by the laboratory, the samples must be stored at ≤ -20 ºC until sample preparation.

6.3 Sample Collection for fish and other tissue samples

6.3.1 If the time of collection to the time of receipt at the laboratory is expected to exceed 24 hours, the tissue samples must be frozen upon collection and shipped to the laboratory on dry ice.

6.3.2 Once received by the laboratory, the samples must be maintained protected from light at ≤ -20 ºC until prepared. Store unused samples in HDPE containers or wrapped in aluminum foil at ≤ -20 ºC.

6.3.3 The nature of the tissues of interest may vary by project. Field sampling plans and protocols should explicitly state the samples to be collected and if any processing will be conducted in the field (e.g., filleting of whole fish or removal of organs). All field procedures must involve materials and equipment that have been shown to be free of PFAS.

6.4 Sample Preservation

Not applicable.

6.5 Sample Shipping

Samples must be chilled during shipment and must not exceed 0 – 6 °C during the first 48 hours after collection. Sample temperature must be confirmed to be at or below 0 – 6 °C when the samples are received at the laboratory. Samples stored in the lab must be held at or below 6 °C until extraction but should not be frozen.

NOTE: Samples that are significantly above 0 – 6 ° C, at the time of collection, may need to be iced or refrigerated for a period of time, in order to chill them prior to shipping. This will allow them to be shipped with sufficient ice to meet the above requirements.

6.6 Sample Handling

6.6.1 Aqueous samples (including leachates) should be analyzed as soon as possible; however, samples may be held in the laboratory for up to 90 days from collection, when stored at ≤ -20 ºC and protected from the light. When stored at 0 - 6 ºC and protected from the light, aqueous samples may be held for up to 28 days, with the caveat that issues were observed with certain perfluorooctane sulfonamide ethanols and perfluorooctane sulfonamidoacetic acids after 7 days. These issues are more likely to elevate the observed concentrations of other PFAS compounds via the transformation of these precursors if they are present in the sample.

6.6.2 Solid samples (soils and sediments), Oil and tissue samples may be held for up to 90 days, if stored by the laboratory in the dark at either 0 - 6 ºC or ≤ -20 ºC, with the caveat that samples may need to be extracted as soon as possible if NFDHA is an important analyte.

6.6.3 Biosolids samples may be held for up to 90 days, if stored by the laboratory in the dark at 0 - 6 ºC or at -20 ºC. Because microbiological activity in biosolids samples at 0 - 6 ºC may lead to production of gases which may cause the sample to be expelled from the container when it is opened, as well as producing noxious odors, EPA recommends that samples be frozen if they need to be stored for more than a few days before extraction. Store sample extracts in the dark at less than 0 - 4 ºC until analyzed. If stored in the dark at less than 0 - 4 ºC, sample extracts may be stored for up to 90 days, with the caveat that issues were observed for some ether sulfonates after 28 days. These issues may elevate the observed concentrations of the ether sulfonates in the extract over time. Samples may need to be extracted as soon as possible if NFDHA is an important analyte.

7. Equipment and Supplies

7.1 SAMPLE CONTAINERS – 500-mL or 250-mL high density polyethylene (HDPE) bottles fitted with unlined screw caps. Sample bottles must be discarded after use.

7.2 SAMPLE JARS – 8-ounce wide mouth high density polyethylene (HDPE) bottles fitted with unlined screw caps. Sample bottles must be discarded after use.

7.3 POLYPROPYLENE BOTTLES – 4-mL narrow-mouth polypropylene bottles.

7.4 CENTRIFUGE TUBES – 50-mL conical polypropylene tubes with polypropylene screw caps for storing standard solutions and for collection of the extracts.

7.5 AUTOSAMPLER VIALS – Polypropylene 0.7-mL autosampler vials with polypropylene caps.

7.5.1 NOTE: Polypropylene vials and caps are necessary to prevent contamination of the sample from PTFE coated septa. However, polypropylene caps do not reseal, so evaporation occurs after injection. Thus, multiple injections from the same vial are not possible.

7.6 POLYPROPYLENE GRADUATED CYLINDERS – Suggested sizes include 25, 50, 100 and 1000-mL cylinders.

7.7 Auto Pipets – Suggested sizes include 5, 10, 25, 50, 100, 250, 500, 1000, 5000 and 10,000-µls.

7.8 PLASTIC PIPETS – Polypropylene or polyethylene disposable pipets.

7.9 Silanized glass wool (Sigma-Aldrich, Cat # 20411 or equivalent) – store in a clean glass jar and rinsed with methanol (2 times) prior to use.

7.10 Disposable syringe filter, 25-mm, 0.2-µm Nylon membrane, PALL/Acrodisc or equivalent

7.11 Variable volume pipettes with disposable HDPE or polypropylene tips (10 µL to 5 mL) used for preparation of calibration standards and spiked samples.

7.12 ANALYTICAL BALANCE – Capable of weighing to the nearest 0.0001 g.

7.13 ANALYTICAL BALANCE – Capable of weighing to the nearest 0.1 g.

7.14 SOLID PHASE EXTRACTION (SPE) APPARATUS FOR USING CARTRIDGES

7.14.1 SPE CARTRIDGES – (Phenomenex WAX 150 or 250mg or equivalent). The SPE sorbent must have a pKa above 8 so that it remains positively charged during the extraction.

7.14.1.1 Note: SPE cartridges with different bed volume (e.g., 500 mg) may be used; however, the laboratory must demonstrate that the bed volume does not negatively affect analyte absorption and elution, by performing the initial demonstration of capability analyses described in Section 13.

7.14.2 VACUUM EXTRACTION MANIFOLD – A manual vacuum manifold with large volume sampler for cartridge extractions, or an automatic/robotic sample preparation system designed for use with SPE cartridges, may be used if all QC requirements discussed in Section 9 are met. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. Care must be taken with automated SPE systems to ensure the PTFE commonly used in these systems does not contribute to unacceptable analyte concentrations in the MB.

7.14.3 SAMPLE DELIVERY SYSTEM – Use of a polypropylene transfer tube system, which transfers the sample directly from the sample container to the SPE cartridge, is recommended, but not mandatory. Standard extraction manifolds come equipped with PTFE transfer tube systems. These can be replaced with 1/8” O.D. x 1/16” I.D. polypropylene or polyethylene tubing cut to an appropriate length to ensure no sample contamination from the sample transfer lines. Other types of non-PTFE tubing may be used provided it meets the MB and LCS QC requirements.

7.15 EXTRACT CONCENTRATION SYSTEM – Extracts are concentrated by evaporation with nitrogen using a water bath set no higher than 55 °C.

7.16 LABORATORY OR ASPIRATOR VACUUM SYSTEM – Sufficient capacity to maintain a vacuum of approximately 10 to 15 inches of mercury for extraction cartridges.

7.17 LIQUID CHROMATOGRAPHY (LC)/TANDEM MASS SPECTROMETER (MS/MS) WITH DATA SYSTEM

7.17.1 LC SYSTEM – Instrument capable of reproducibly injecting up to 10-µL aliquots and performing binary linear gradients at a constant flow rate near the flow rate used for development of this method (0.4 mL/min). The LC must be capable of pumping the water/methanol mobile phase without the use of a degasser which pulls vacuum on the mobile phase bottle (other types of degassers are acceptable). Degassers which pull vacuum on the mobile phase bottle will volatilize the ammonium acetate mobile phase causing the analyte peaks to shift to earlier retention times over the course of the analysis batch. The usage of a column heater is optional.

7.17.2 LC/TANDEM MASS SPECTROMETER – The LC/MS/MS must be capable of negative ion electrospray ionization (ESI) near the suggested LC flow rate of 0.4 mL/min. The system must be capable of performing MS/MS to produce unique product ions for the method analytes within specified retention time segments. A minimum of 10 scans across the chromatographic peak is required to ensure adequate precision.

7.17.3 DATA SYSTEM – An interfaced data system is required to acquire, store, reduce, and output mass spectral data. The computer software should have the capability of processing stored LC/MS/MS data by recognizing an LC peak within any given retention time window. The software must allow integration of the ion abundance of any specific ion within specified time or scan number limits. The software must be able to calculate relative response factors, construct linear regressions or quadratic calibration curves, and calculate analyte concentrations.

7.17.4 INSTRUMENT COLUMNS

7.17.4.1 ANALYTICAL: C18 column, 1.7 µm, 50 x 2.1 mm (Waters Acquity UPLC® BEH or equivalent)

7.17.4.2 OPTIONAL GUARD COLUMN: (Phenomenex Kinetex® Evo C18 or equivalent)

8. Reagents and Standards

8.1 GASES, REAGENTS, AND SOLVENTS – Reagent grade or better chemicals must be used.

8.1.1 REAGENT WATER – Purified water which does not contain any measurable quantities of any method analytes or interfering compounds greater than 1/2 the RL for each method analyte of interest. Prior to daily use, at least 3 L of reagent water should be flushed from the purification system to rinse out any build-up of analytes in the system's tubing.

8.1.2 METHANOL (CH_3OH, CAS#: 67-56-1) – High purity, demonstrated to be free of analytes and interferences.

8.1.3 AMMONIUM ACETATE ($NH_4C_2H_3O_2$, CAS#: 631-61-8) – High purity, demonstrated to be free of analytes and interferences. Store at 2-8° and replace 2 years after opening date.

8.1.4 ACETIC ACID (H_3CCOOH, CAS#: 64-19-7) - High purity, demonstrated to be free of analytes and interferences and stored at room temperature.

8.1.4.1 Acetic Acid (0.1%) – Dissolve acetic acid (1 mL) in reagent water (1 L), store at room temperature, replace after 3 months.

8.1.5 1M AMMONIUM ACETATE/REAGENT WATER – High purity, demonstrated to be free of analytes and interferences.

8.1.6 2mM AMMONIUM ACETATE/METHANOL:WATER (5:95) – To prepare, mix 2 ml of 1M AMMONIUM ACETATE,1 ml ACETIC ACID and 50 ml METHANOL into I Liter of REAGENT WATER.

8.1.7 ACETONITRILE – UPLC grade or equivalent, store at room temperature

8.1.8 TOLUENE – HPLC grade or equivalent.

8.1.9 ACETONE – pesticide grade or equivalent

8.1.10 AMMONIUM HYDROXIDE (NH_3, CAS#: 1336-21-6) – High purity, demonstrated to be free of analytes and interferences, and stored at room temperature.

8.1.11 AQUEOUS AMMONIUM HYDROXIDE (3%) – Add ammonium hydroxide (10 mL, 30%) to reagent water (90 mL), store at room temperature, replace after 3 months.

8.1.12 METHANOLIC AMMONIUM HYDROXIDE (0.3%) - add ammonium hydroxide (1 mL, 30%) to methanol (99 mL), store at room temperature, replace after 1 month

8.1.13 METHANOLIC AMMONIUM HYDROXIDE (1%) - add ammonium hydroxide (3.3 mL, 30%) to methanol (97 mL), store at room temperature, replace after 1 month

8.1.14 METHANOLIC AMMONIUM HYDROXIDE (2%) - add ammonium hydroxide (6.6 mL, 30%) to methanol (93.4 mL), store at room temperature, replace after 1 month

8.1.15 METHANOLIC POTASSIUM HYDROXIDE (0.05 M) – add 3.3 g of potassium hydroxide to 1 L of methanol, store at room temperature, replace after 3 months

8.1.16 METHANOL WITH 4% WATER, 1% AMMONIUM HYDROXIDE AND 0.625% ACETIC ACID - add ammonium hydroxide (3.3 mL, 30%), reagent water (1.7 mL) and acetic acid (0.625 mL) to methanol (92 mL), store at room temperature, replace after 1 month. This solution is used to prepare the instrument blank and calibration standards (Section 8.3.2).

8.1.17 FORMIC ACID – (greater than 96% purity or equivalent). Store at room temperature and replace after 2 years.

8.1.18 FORMIC ACID (aqueous, 0.1 M) - dissolve formic acid (4.6 g) in reagent water (1 L), store at room temperature, replace after 2 years.

8.1.19 FORMIC ACID (aqueous, 0.3 M) - dissolve formic acid (13.8 g) in reagent water (1 L), store at room temperature, replace after 2 years.

8.1.20 FORMIC ACID (aqueous, 5% v/v) - mix 5 mL formic acid with 95 mL reagent water, store at room temperature, replace after 2 years.

8.1.21 FORMIC ACID (methanolic 1:1, 0.1 M formic acid/methanol) - mix equal volumes of methanol and 0.1 M formic acid, store at room temperature, replace after 2 years.

8.1.22 FORMIC ACID (aqueous, 50% v/v) - mix 50 mL formic acid with 50 mL reagent water, store at room temperature, replace after 2 years.

8.1.23 POTASSIUM HYDROXIDE – certified ACS or equivalent, store at room temperature, replace after 2 years.

8.1.24 CARBON - – EnviCarb® 1-M-USP or equivalent, verified by lot number before use, stored at room temperature. Loose carbon allows for better adsorption of interferent organics. Note: The single-laboratory validation laboratory achieved better performance with loose carbon than carbon cartridges. Loose carbon will be used for the multi-laboratory validation to set statistically based method criteria.

8.1.25 NITROGEN – Used for the following purposes: Nitrogen aids in aerosol generation of the ESI liquid spray and is used as collision gas in some MS/MS instruments. The nitrogen used should meet or exceed instrument manufacturer's specifications. In addition, Nitrogen is used to concentrate sample extracts (Ultra High Purity or equivalent).

8.1.26 ARGON – Used as collision gas in some MS/MS instruments. Argon should meet or exceed instrument manufacturer's specifications. Nitrogen gas may be used as the collision gas provided sufficient sensitivity (product ion formation) is achieved.

8.2 REFERENCE MATRICES - Matrices in which PFAS and interfering compounds are not detected by this method. These matrices are to be used to prepare the batch QC samples, LOQ/MDL, and IDOC samples.

8.2.1 Reagent water - purified water, Type I

8.2.2 Solid reference matrix Ottawa Sand or equivalent

8.2.3 Tissue Reference matrix – Cod loin or other animal tissue demonstrated to be PFAS free.

8.3 STANDARD SOLUTIONS – When a compound purity is assayed to be 96% or greater, the weight can be used without correction to calculate the concentration of the stock standard. PFAS analyte and IS standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers and are stored at ≤4 °C. Standards for sample fortification generally should be prepared in the smallest volume that can be accurately measured to minimize the addition of excess organic solvent to aqueous samples.

8.3.1 Stock standards and diluted stock standards are stored at ≤4 °C. Prepare a spiking solution, containing the method analytes listed in Table 1, in methanol from prime stocks. The solution is used to prepare the calibration standards and to spike the known reference QC samples that are analyzed with every batch. Quantitative standards containing a mixture of branched and linear isomers must be used for method analytes if they are commercially available. Currently, these include PFOS, PFHxS, NEtFOSAA, and NMeFOSAA.

8.3.2 Calibration standard solutions – A series of calibration solutions containing the target analytes and the Labeled extracted internal standards (EIS) and non-extracted internal standards (NIS) is used to establish the initial calibration of the analytical instrument. Table 4 represents the concentrations of the native, EIS and NIS analytes of the calibration curve. Calibration standard solutions are made using the solution described in section 8.1.16.

8.3.3 ISOTOPE DILUTION EXTRACTED INTERNAL STANDARD (EIS) – Isotopically labelled analogs of the target analytes to be used for the quantification of target analytes. EIS stock standard solutions are purchased in glass ampoules and are stored in accordance with the manufacturer's recommendations. The EIS stock solution to be used for the fortification of samples and QC in accordance with the isotope dilution procedure. Table 2 represents the EIS concentrations and nominal sample amounts added to each field sample and QC element.

8.3.4 ISOTOPE DILUTION NON-EXTRACTED INTERNAL STANDARDS (NIS) – Isotopically labelled analogs to be added post extraction for the measurement of EIS extraction efficiency and is added to the final volume of all extractions. Table 3 represents the EIS concentrations and nominal sample amounts added to each field sample and QC element.

9. Quality Control

9.1 Method Blank

9.1.1 A Method Blank (MB) is required with each extraction batch to confirm that potential background contaminants are not interfering with the identification or quantitation of method analytes. An aliquot of reagent water that is treated exactly as a sample including exposure to all glassware, equipment, solvents, reagents and standards. Prep and analyze a MB for every 20 samples. If the MB produces a peak within the retention time window of any analyte that would prevent the determination of that analyte, determine the source of contamination, and eliminate the interference before processing samples. Background contamination must be reduced to an acceptable level before proceeding. Background from method analytes or other contaminants that interfere with the measurement of method analytes must be below the RL. If the method analytes are detected in the MB at concentrations equal to or greater than this level, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch.

9.2 Laboratory Control Sample (LCS)

9.2.1 Low Level LCS or OPR (Ongoing Precision Recovery) sample is required with each extraction batch. A LLCS or OPR samples is a method blank spiked with known quantities of analytes. The fortified concentration of the LCS is spiked at 2X the LOQ. Default limits of 70-130% of the true value may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. Calculate the percent recovery (%*R*) for each analyte using the equation:

9.2.2 An LCS or OPR (Ongoing Precision Recovery) sample is required with each extraction batch. A LCS or OPR samples is a method blank spiked with known quantities of analytes. The fortified concentration of the LCS is spiked at the midpoint of the calibration curve. Default limits of 70-130% of the true value may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. Calculate the percent recovery (%*R*) for each analyte using the equation:

$$\%R = \frac{A \times 100}{B}$$

Where:

A = measured concentration in the fortified sample
B =fortification concentration.

9.1.1 Where applicable, in the absence of additional sample volume required to perform matrix specific QC, LCSD's are to be extracted and analyzed. The concentration and analyte

recovery criteria for the LCSD must be the same as the batch LCS The RSD's must fall within ≤30% of the true value for medium and high-level replicates, and ≤50% for low level replicates. Calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation:

$$RPD = \frac{|LCS - LCSD|}{(LCS + LCSD) / 2} \times 100$$

9.1.2 If the LCS and or LCSD results do not meet these criteria for method analytes, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch.

9.3 Non-extracted Internal Standard Area (NIS)

Each time an initial calibration is performed, use the data from all the initial calibration standards used to meet the linearity test in Section 10.3.3.3 to calculate the mean area response for each of the NIS compounds, using the equation below.

$$\text{Mean Area}_{NISi} = \sum \text{AREA}_{NISi} / n$$

where:

AreaNISi = Area counts for the ith NIS, where i ranges from 1 to 7, for the seven NIS compounds listed in Table 1
n = The number of ICAL standards (the default value is n = 6). If a different number of standards is used for the ICAL, for example, to increase the calibration range or by dropping a point at either end of the range to meet the linearity criterion, change 6 to match the actual number of standards used)
Record the mean areas for each NIS for use in evaluating results for sample analyses. There is no acceptance criterion associated with the mean NIS area data.

9.4 Extracted Internal Standards (EIS)

9.4.1 The EIS standard is fortified into all samples, CCVs, MBs, LCSs, MSs, MSDs, FD, and FRB prior to extraction. It is also added to the CAL standards. The EIS is a means of assessing method performance from extraction to final chromatographic measurement. Calculate the recovery (%R) for the EIS using the following equation:

$$\%R = (A / B) \times 100$$

Where:

A = calculated EIS concentration for the QC or Field Sample
B = fortified concentration of the EIS.

9.4.2 Default limits of 50-150% may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. A low or high percent recovery for a sample, blank, or CCV does not require discarding the analytical data but it may indicate a potential problem with future analytical data. When EIS recovery from a sample, blank, or CCV are outside control limits, check 1) calculations to locate possible errors, 2) standard solutions for degradation, 3) contamination, and 4)

instrument performance. For CCVs and QC elements spiked with all target analytes, if the recovery of the corresponding target analytes meet the acceptance criteria for the EIS in question, the data can be used but all potential biases in the recovery of the EIS must be documented in the sample report. If the associated target analytes do not meet the acceptance criteria, the data must be reanalyzed.

9.5 Matrix Spike (MS/MSD)

9.5.1 Analysis of an MS is prepared one per preparation batch (if required).

9.5.2 Aliquots of field samples that have been fortified with a known concentration of target compounds, prior to sample preparation and extraction, and analyzed to measure the effect of matrix interferences. The use of MS/MSD samples is generally not required in isotope dilution methods because the labeled compounds added to every sample provide more performance data than spiking a single sample in each preparation batch. Aliquots of field samples

9.5.3 Analyte recoveries may exhibit matrix bias. For samples fortified at or above their native concentration, recoveries should range between 50-150%. If the accuracy of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the LCS, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.6 Laboratory Duplicate

9.6.1 FIELD DUPLICATE OR LABORATORY FORTIFIED SAMPLE MATRIX DUPLICATE (FD or MSD) – Within each extraction batch (not to exceed 20 Field Samples), a minimum of one FD or MSD must be analyzed. Duplicates check the precision associated with sample collection, preservation, storage, and laboratory procedures. If method analytes are not routinely observed in Field Samples, an MSD should be analyzed rather than an FD.

9.6.2 Calculate the relative percent difference (*RPD*) for duplicate measurements (*FD1* and *FD2*) using the equation:

$$RPD = \frac{|FD1 - FD2|}{(FD1 + FD2) / 2} \times 100$$

9.6.3 RPDs for FDs should be ≤30%. Greater variability may be observed when FDs have analyte concentrations that are within a factor of 2 of the RL. At these concentrations, FDs should have RPDs that are ≤50%. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the CCV, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.6.4 If an MSD is analyzed instead of a FD, calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation:

$$RPD = \frac{|MS - MSD|}{} \times 100$$

(MS + MSD) / 2

9.6.5 RPDs for duplicate MSs should be ≤30% for samples fortified at or above their native concentration. Greater variability may be observed when MSs are fortified at analyte concentrations that are within a factor of 2 of the RL. MSs fortified at these concentrations should have RPDs that are ≤50% for samples fortified at or above their native concentration. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the LCSD where applicable, the result is judged to be matrix biased. If no LCSD is present, the associated MS and MSD are to be re-analyzed to determine if any analytical has occurred. If the resulting RPDs are still outside control limits, the result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.7 Bile Salt Interference Check

9.7.1 The laboratory must analyze a TDCA standard after the initial calibration, prior to the analysis of tissue samples, to check for interferences caused by bile salts. If an interference is present, the chromatographic conditions must be modified to eliminate the interference from TDCA (e.g., changing the retention time of TDCA such that it falls outside the

9.8 Initial Calibration Verification (ICV)

9.8.1 After each ICAL, analyze a QCS sample from a source different from the source of the CAL standards. If a second vendor is not available, then a different lot of the standard should be used. The QCS should be prepared and analyzed just like a CCV. Acceptance criteria for the QCS are identical to the CCVs; the calculated amount for each analyte must be ± 30% of the expected value. If measured analyte concentrations are not of acceptable accuracy, check the entire analytical procedure to locate and correct the problem.

9.9 Instrument Sensitivity Check (ISC)

9.9.1 At the start of each 12-hour shift, analyze a standard at the LOQ. The signal-to-noise ratio of the ISC standard must be greater than or equal to 3:1. If the requirements cannot be met, the problem must be corrected before analyses can proceed.

9.10 Continuing Calibration Verification (CCV)

9.10.1 CCV Standards must be analyzed at the beginning of each analysis batch, after every 10 Field Samples, and at the end of the analysis batch.

9.10.2 The recovery of native and isotopically labeled compounds for the CVs must be within 70 - 130%

9.11 Method-specific Quality Control Samples

9.11.1 Instrument Blank – During the analysis of a batch of samples, a solvent blank is analyzed after samples containing high level of target compounds (e.g., calibration, CV) to monitor carryover from the previous injection. The injection blank consists of the solution in Section 8.1.16 fortified with the EIS and NIS for quantitation purposes.

9.12 Example Method Sequence

- INSTRUMENT BLANK
- INSTRUMENT SENSITIVITY CHECK
- CALIBRATION VERIFICATION STANDARD
- QUALITATIVE IDENTIFICATION STANDARDS
- TDCA STANDARD (only if analyzing tissues)
- INSTRUMENT BLANK
- METHOD BLANK
- LOW-LEVEL LCS/OPR
- OPR/LCS
- SAMPLE (10 or fewer)
- CALIBRATION VERIFICATION STANDARD
- INSTRUMENT BLANK
- SAMPLE (10 or fewer)
- CALIBRATION VERIFICATION STANDARD
- INSTRUMENT BLANK

10. Procedure

10.1 Equipment Set-up

10.1.1 This procedure may be performed manually or in an automated mode using a robotic or automatic sample preparation device. If an automated system is used to prepare samples, follow the manufacturer's operating instructions, but all extraction and elution steps must be the same as in the manual procedure. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. If an automated system is used, the MBs should be rotated among the ports to ensure that all the valves and tubing meet the MB requirements.

10.1.2 Some of the PFAS's adsorb to surfaces, including polypropylene. Therefore, the aqueous sample bottles must be rinsed with the elution solvent whether extractions are performed manually or by automation. The bottle rinse is passed through the cartridge to elute the method analytes and is then collected.

10.1.3 The SPE cartridges and sample bottles described in this section are designed as single use items and should be discarded after use. They may not be refurbished for reuse in subsequent analyses.

10.1.4 All SPE apparatus, including manifolds, tubing and sample ports must be thoroughly rinsed following each use with 1% methanolic ammonium hydroxide, followed by Methanol and then DI water. Additionally, sample manifold ports and transfer tubing should be inspected regularly for signs of wear and/or

discoloration. When such observations are made, the associated components should be replaced.

10.1.5 Prior to the start of any extraction, sample site information must be evaluated for any potentially high level PFAS concentrations or sample matrix irregularities that may impact the extraction process. If such samples are identified, aqueous samples may be pre-screened via direct aqueous injection prior to analysis to estimate the potential PFAS concentrations present.

10.1.6 To perform a direct aqueous injection (DAI) screen, the sample should be inverted several times to try and evenly disperse any organic matter present. A 1 ml aliquot (or less depending on the matrix) is to be taken from the parent sample, volume adjusted to 1 ml with reagent water if less than 1ml, fortified with EIS and NIS spiking solutions to match the concentrations of an extracted sample (typically 5 µl per 1 ml DAI), and then analyzed under the same analytical conditions as field samples.

10.2 Sample Preparation of Aqueous Samples

10.2.1 Samples are preserved, collected, and stored as presented in Section 6.

10.2.2 Determine sample volume. Weigh all samples to the nearest 1g. If visible sediment is present, centrifuge and decant into a new HDPE bottle and record the weight of the new container.

NOTE: Some of the PFAS's adsorb to surfaces, thus the sample volume may not be transferred to a graduated cylinder for volume measurement.

10.2.3 The MB, LCS and FRB may be prepared by measuring reagent water with a polypropylene graduated cylinder or filling an HDPE sample bottle near the top.

10.2.4 Check that the pH is 6.5 ± 0.5. If necessary, adjust pH with 50% formic acid or ammonium hydroxide and 3% aqueous ammonium hydroxide. The extract is now ready for solid-phase extraction (SPE) and cleanup.

10.2.5 Add 20 µL of the EIS to each sample and QC, cap and invert to mix.

10.2.6 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS. Cap and invert each sample to mix.

10.3 Sample Prep and Extraction Protocol for Solids.

10.3.1 Homogenize and weigh 5 grams of sample (measured to the nearest hundredth of a gram) into a 50 ml polypropylene centrifuge tube. For laboratory control blanks and spikes, 5 grams of clean sand is used.

10.3.1.1 For Biosolids and other complex matrices, a small aliquot may be required due to co-extracted matrix interferences.

10.3.1.2 For batch QC samples using 5 g of reference solid, add 2.5 g of reagent water. The addition of reagent water to the sand provides a matrix closer in composition to real-world samples.

10.3.2 Add 20 µL of the EIS to each sample and QC.

10.3.3 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS. Cap and invert each sample to mix.

10.3.4 Vortex the samples to evenly disperse the spiking solutions and allow to equilibrate for 30 minutes.

10.3.5 To all samples, add 10 ml of 0.3% methanolic ammonium hydroxide, cap, vortex for 25 seconds.

10.3.6 Following mixing, shake each sample for 30 minutes on a shaker table.

10.3.7 Centrifuge each sample at 2800RPM for 10 minutes.

10.3.8 Remove the supernatant and transfer to a clean 50 ml polypropylene centrifuge tube.

10.3.9 Repeat steps 10.3.4 to 10.3.7, with 15 ml of 0.3% methanolic ammonium hydroxide, combining the supernatants.

10.3.10 Add 5ml of 0.3% methanolic ammonium hydroxide to the sample, vortex for 25 seconds and centrifuge each sample at 2800RPM for 10 minutes.

10.3.11 Remove the supernatant and transfer to the same 50 ml polypropylene centrifuge tube containing eluates from the previous cycles.

10.3.12 Add 10 mg of carbon to the combined extract, mix by occasional hand shaking for no more than five minutes and then centrifuge at 2800 rpm for 10 minutes. Immediately decant the extract into a 50 ml polypropylene centrifuge tube.

10.3.13 Dilute to approximately 35 mL with reagent water. Samples containing more than 50% water may yield extracts that are greater than 35 mL in volume; therefore, do not add water to these. Determine the water content in the sample as follows (percent moisture is determined from the % solids):

Water Content in Sample = (Sample Weight * Percent moisture) / 100

10.3.14 Concentrate each extract at approximately 55 ºC with a gentle N2 flow to a final volume that is based on the water content of the sample (see table below). Allow extracts to concentrate for 10 minutes, then mix (by vortex if the volume is < 20. Continue concentrating and mixing every 5 minutes until the extract has been reduced to the required volume as specified in the table below. If the extract volume appears to stop dropping, the concentration must be stopped and the volume at which it was stopped recorded.

Water Content in Sample	Concentrated Final Volume
< 5 grams	15 ml
5-8 grams	15-20 ml
8-9 grams	20-22.5 ml
9-10 grams	22.5-25 ml

10.3.15 Add 40 - 50 mL of reagent water to the extract and vortex. Check that the pH is 6.5 ±0.5 and adjust as necessary with 50% formic acid or 30% ammonium hydroxide, or with 5% formic acid and 3% aqueous ammonium hydroxide. The extracts are ready for SPE and cleanup.

10.4 Sample Prep and Extraction Protocol for Oils.

10.4.1 Weigh 1-2 grams of sample (measured to the nearest hundredth of a gram) into a 50 ml polypropylene centrifuge tube. For laboratory control blanks and spikes, 1 grams of mineral oil is used.

10.4.1.1 For batch QC samples use 1 g of reference oil.

10.4.2 Add 20 µL of the EIS to each sample and QC.

10.4.3 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS. Cap and invert each sample to mix.

10.4.4 Vortex the samples to evenly disperse the spiking solutions and allow to equilibrate for 30 minutes.

10.4.5 To all samples, add 10 ml of 0.3% methanolic ammonium hydroxide, cap, vortex for 25 seconds.

10.4.6 Following mixing, shake each sample for 30 minutes on a shaker table.

10.4.7 Centrifuge each sample at 2800RPM for 10 minutes.

10.4.8 Remove the supernatant and transfer to a clean 50 ml polypropylene centrifuge tube.

10.4.9 Repeat steps 10.3.4 to 10.3.7, with 15 ml of 0.3% methanolic ammonium hydroxide, combining the supernatants.

10.4.10 Add 5ml of 0.3% methanolic ammonium hydroxide to the sample, vortex for 25 seconds and centrifuge each sample at 2800RPM for 10 minutes.

10.4.11 Remove the supernatant and transfer to the same 50 ml polypropylene centrifuge tube containing eluates from the previous cycles.

10.4.12 Add 10 mg of carbon to the combined extract, mix by occasional hand shaking for no more than five minutes and then centrifuge at 2800 rpm for 10 minutes. Immediately decant the extract into a 50 ml polypropylene centrifuge tube.

10.5 Sample Prep and Extraction Protocol for Tissues.

10.5.1 Homogenize and weigh 2 grams of sample (measured to the nearest hundredth of a gram) into a 50 ml polypropylene centrifuge tube. For laboratory control blanks and spikes, 2 grams of clean tissue is used.

10.5.2 Add 20 µL of the EIS PDS to each sample and QC.

10.5.3 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS. Cap and invert each sample to mix.

10.5.4 Add 10 mL of 0.05M KOH in methanol to each sample. Vortex to disperse the tissue then place tubes on a mixing table to extract for at 16 hours. Centrifuge at 2800 rpm for 10 minutes and collect the supernatant in a 50-mL polypropylene centrifuge tube.

10.5.5 Add 10 mL of acetonitrile to remaining tissue in the 50-mL centrifuge tube, vortex to mix and disperse the tissue. Sonicate for 30 minutes. Centrifuge at 2800 rpm for 10 minutes and collect the supernatant, adding it to the 50-mL centrifuge tube containing the initial extract.

10.5.6 Add 5 mL of 0.05M KOH in methanol to the remaining sample in each centrifuge tube. Vortex to disperse the tissue and hand mix briefly. Centrifuge at 2800 rpm

for 10 minutes and collect the supernatant, adding it to the 50-mL centrifuge tube containing the first two extracts.

10.5.7 Add 10 mg of carbon to the combined extract, mix by occasional hand shaking over a period of no more than five minutes and then centrifuge at 2800 rpm for 10 minutes. Immediately decant the extract into a 50-mL centrifuge tube.

10.5.8 Add 1 mL of reagent water to each tube and concentrate each extract at approximately 55 ºC with a gentle N2 flow to a final volume of 2.5 ml.

10.5.9 Add reagent water to each evaporation/concentrator tube to dilute the extracts to 50 mL. Check that the pH = 6.5 ± 0.5 and adjust as needed with 50% formic acid, or ammonium hydroxide or with 5% formic acid and 3% aqueous ammonium hydroxide. The extracts are ready for SPE and cleanup.

10.6 SPE Extract: All matrices

10.6.1 Pack clean silanized glass wool to half the height of the WAX SPE cartridge barrel.

10.6.2 Pre-condition the cartridges by washing them with 3 X 5 mL of 1% methanolic ammonium hydroxide, discarding the wash volumes.

10.6.3 Rinse the cartridge with 5 mL of 0.3M formic acid, allowing the cartridge to drain using gravity only, discarding the rinse volume. Do not allow the cartridge to go dry

10.6.4 Adjust the vacuum so that the approximate flow rate is ~5 mL/min and load the sample across the cartridge. Do not allow the cartridge to go dry before all the sample has passed through.

10.6.5 Once all the sample has passed across the cartridge, rinse the walls of the reservoir with 2 X 5 mL reagent water, loading the rinse across the cartridge.

10.6.6 Rinse the walls of the reservoir with 5 mL of 1:1 0.1M formic acid/methanol and pass the rinse through the cartridge using vacuum. Dry the cartridge by pulling air through for 15 seconds.

10.6.7 Rinse the inside of the sample bottle with 5 mL of 1% methanolic ammonium hydroxide. Use vacuum to pull the elution solvent through the cartridge and into the collection tubes. When the cartridge bed and glass wool are submerged, stop the cartridge flow by closing the valve, keeping the sorbent bed and wool submerged.

10.6.8 Let the wetted sorbent bed and wool soak for 1 minute.

10.6.9 Open the cartridge valve and collect the eluate into a 15 ml polypropylene collection tube.

10.6.10 Add 25 µL of concentrated acetic acid to each sample eluted in the collection tubes and vortex to mix.

10.6.11 Add 10 mg of carbon to each sample and batch QC extract, using a 10-mg scoop. Handshake occasionally for no more than 5 minutes. It is important to minimize the time the sample extract is in contact with the carbon. Immediately vortex (30 seconds) and centrifuge at 2800 rpm for 10 minutes.

10.6.12 Add NIS solution to a clean collection tube. Place a syringe filter (25-mm filter, 0.2-µm nylon membrane) on a 5-mL polypropylene syringe. Take the plunger out and carefully decant the sample supernatant into the syringe barrel. Replace the

plunger and filter the entire extract into the new collection tube containing the NIS.

10.6.13 Vortex to mix and transfer a portion of the extract into a .7-mL polypropylene LC vial for LC-MS/MS analysis. Cap the collection tube containing the remaining extract and store at 4 °C

10.7 Sample Volume Determination

10.7.1 If using weight to determine volume, weigh the empty bottle to the nearest 1 g and determine the sample weight by subtraction of the empty bottle weight from the original sample weight. Assume a sample density of 1.0 g/mL. In either case, the sample volume will be used in the final calculations of the analyte concentration.

10.8 Initial Calibration - Demonstration and documentation of acceptable initial calibration is required before any samples are analyzed. After the initial calibration is successful, a CCV is required at the beginning and end of each period in which analyses are performed, and after every tenth Field Sample.

10.8.1 ESI-MS/MS TUNE

10.8.1.1 Calibrate the mass scale of the MS with the calibration compounds and procedures prescribed by the manufacturer.

10.8.1.2 Optimize the [M-H]- or [M-CO_2]- for each method analyte by infusing approximately 0.5-1.0 µg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (0.4 mL/min). This tune can be done on a mix of the method analytes. The MS parameters (voltages, temperatures, gas flows, etc.) are varied until optimal analyte responses are determined. The method analytes may have different optima requiring some compromise between the optima.

The Mass spec conditions found in Table 7 show the Sciex Triple Quad 5500+ operation conditions used in this method.

10.8.1.3 Optimize the product ion for each analyte by infusing approximately 0.5-1.0 µg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (approximately 0.4 mL/min). This tune can be done on a mix of the method analytes. The MS/MS parameters (collision gas pressure, collision energy, etc.) are varied until optimal analyte responses are determined. Typically, the carboxylic acids have very similar MS/MS conditions, and the sulfonic acids have similar MS/MS conditions.

The conditions found on table 5 are representative of expected tune optimizations for each analyte. If conditions other the ones close to the values provided in table 5 are achieved, the process should be re-performed and/or instrument maintenance performed to resolve the problem.

10.8.2 Establish LC operating parameters that optimize resolution and peak shape. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted.

Table 6 represents the operation conditions of a Sciex Exion LC system when running this method.

10.8.3 Inject 2µl of a mid-level CAL standard under LC/MS conditions to obtain the retention times of each method analyte. Divide the chromatogram into retention time windows each of which contains one or more chromatographic peaks. During MS/MS analysis, fragment a small number of selected precursor ions ([M-H]-) for the analytes in each window and choose the most abundant product ion. For maximum sensitivity, small mass windows of ±0.5 daltons around the product ion mass were used for quantitation.

10.8.4 Inject a mid-level CAL standard under optimized LC/MS/MS conditions to ensure that each method analyte is observed in its MS/MS window and that there are at least 10 scans across the peak for optimum precision.

NOTE: PFHxS, PFOS, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 7 due to chromatographic resolution of the linear and branched isomers of these compounds. Most PFAS's are produced by two different processes. One process gives rise to linear PFAS's only while the other process produces both linear and branched isomers. Thus, both branched and linear PFAS's can potentially be found in the environment. For the aforementioned compounds that give rise to more than one peak, all the chromatographic peaks observed in the standard must be integrated and the areas totaled. Chromatographic peaks in a sample must be integrated in the same way as the CAL standard.

10.8.5 Prepare a set of CAL standards as outlined in table 5. The lowest concentration CAL standard must be at or below the LOQ.

10.8.6 The LC/MS/MS system is calibrated using the isotope dilution technique. Target analytes are quantitated against their isotopically labeled analog (Extracted Internal Standard) where commercially available. If a labeled analog is not commercially available, the extracted internal standard with the closest retention time and /or closest chemical similarity is to be used. Use the LC/MS/MS data system software to generate a linear regression or quadratic calibration curve for each of the analytes. This curve must always be forced through zero and may be concentration weighted, if necessary. Forcing zero allows for a better estimate of the background levels of method analytes. A minimum of 6 calibration points are required for a linear or quadratic calibration model.

10.8.7 **CALIBRATION ACCEPTANCE CRITERIA** – A linear fit is acceptable if the calculated RSD or RSE for each target analyte is ≤20%. If linear or Quadratic regressions are used, coefficient of determination (r^2) values must be greater than 0.99. When quantitated using the initial calibration curve, each calibration point at or above the LOQ for each analyte must calculate to be within 70-130% of its true value. The calculate value of each EIS analyte must be within 50-150% of its true value. If these criteria cannot be met, corrective action is taken to reanalyze the CAL standards, restrict the range of calibration.

10.8.8 **Bile salts interference check -** The laboratory must analyze a TDCA standard after the initial calibration, prior to the analysis of tissue samples, to check for interferences caused by bile salts. If an interference is present, the chromatographic conditions must be modified to eliminate the interference from TDCA (e.g., changing the retention time of TDCA such that it falls outside the

retention window for PFOS by at least one minute), and the initial calibration repeated.

10.9 CONTINUING CALIBRATION CHECK (CCV) – Minimum daily calibration verification is as follows. Verify the initial calibration at the beginning and end of each group of analyses, and after every tenth sample during analyses. In this context, a "sample" is considered to be a Field Sample. MBs, CCVs, LCSs, MSs, FDs FRBs and MSDs are not counted as samples. The beginning CCV of each analysis batch must be at or below the RL in order to verify instrument sensitivity prior to any analyses. If standards have been prepared such that all low CAL points are not in the same CAL solution, it may be necessary to analyze two CAL standards to meet this requirement. Alternatively, the analyte concentrations in the analyte PDS may be customized to meet these criteria. Subsequent CCVs should alternate between a medium and Low concentration CAL standard.

10.9.1 Inject an aliquot of the appropriate concentration CAL standard and analyze with the same conditions used during the initial calibration.

10.9.2 Calculate the concentration of each analyte and EIS in the CCV. The calculated amount for each native and EIS analyte for medium level CCVs must be within ± 30% of the true. If these conditions do not exist, then all data for the problem analyte must be considered invalid, and remedial action should be taken which may require recalibration. Any Field or QC Samples that have been analyzed since the last acceptable calibration verification should be reanalyzed after adequate calibration has been restored, with the following exception. If the CCV fails because the calculated concentration is greater than 130% for a particular method analyte, and Field Sample extracts show no detection for that method analyte, non-detects may be reported without re-analysis.

10.9.3 REMEDIAL ACTION – Failure to meet CCV QC performance criteria may require remedial action. Major maintenance, such as cleaning the electrospray probe, atmospheric pressure ionization source, cleaning the mass analyzer, replacing the LC column, etc., requires recalibration and verification of sensitivity by analyzing a CCV at or below the LOQ.

10.10 EXTRACT ANALYSIS

10.10.1 The same operating conditions used for the initial calibration and summarized in Tables 6 and 7 are to be used.

10.10.2 Prior to analysis of sample extracts, the Instrument mass calibration verification must be performed using standards whose mass range brackets the masses of interest and performed in the negative ion mode. The mass calibration is verified if the calculated mass is within ± .2 daltons of the specified mass.

10.10.3 Establish an appropriate retention time window for each analyte. This should be based on measurements of actual retention time variation for each method analyte in CAL standard solutions analyzed on the LC over the course of time. A value of plus or minus three times the standard deviation of the retention time obtained for each method analyte while establishing the initial calibration can be used to calculate a suggested window size. However, the experience of the analyst should weigh heavily on the determination of the appropriate retention window size.

10.10.4 Calibrate the system by either the analysis of a calibration curve or by confirming the initial calibration is still valid by analyzing a CCV.

10.10.5 Begin analyzing Field Samples, including QC samples, at their appropriate frequency by injecting the same size aliquots under the same conditions used to analyze the CAL standards.

10.10.6 For concentrations at or above the method LOQ, the total (branched and linear isomer) quantification ion response to the total (branched and linear isomer) confirmation ion response ratio must fall within ± 50% of the ratio observed in the midpoint initial calibration standard.

10.10.7 At the conclusion of data acquisition, use the same software that was used in the calibration procedure to identify peaks of interest in predetermined retention time windows. Use the data system software to examine the ion abundances of the peaks in the chromatogram. Identify an analyte by comparison of its retention time with that of the corresponding method analyte peak in a reference standard.

10.10.7.1 Method analyte, EIS analyte, and NIS analyte RTs must fall within 0.4 minutes of the predicted retention times from the midpoint standard of the ICAL or initial daily CV, whichever was used to establish the RT window position for the analytical batch. All branched isomer peaks identified in either the calibration standard or the qualitative (technical grade) standard must fall within in the retention time window for that analyte.

10.10.7.2 For all method analytes with exact corresponding isotopically labeled analogs, method analytes must elute within 0.1 minutes of the associated EIS.

10.10.8 The analyst must not extrapolate beyond the established calibration range. If an analyte peak area exceeds the range of the initial calibration curve, the sample should be re-extracted with a reduced sample volume in order to bring the out of range target analytes into the calibration range. If a smaller sample size would not be representative of the entire sample, the following options are recommended. Re-extract an additional aliquot of sufficient size to ensure that it is representative of the entire sample. Spike it with a higher concentration of internal standard. Prior to LC/MS analysis, dilute the sample so that it has a concentration of internal standard equivalent to that present in the calibration standard. Then, analyze the diluted extract.3

10.10.9 In instances where re-extraction is not an option, dilute a subsample of the sample extract with 0.1% acetic acid by a factor no greater than 10x adjust the amount of the NIS in the diluted extract, and analyze the diluted extract. If the responses for each EIS in the diluted extract meet the S/N and retention time, and the EIS recoveries from the analysis of the diluted extract are greater than 5%, then the compounds associated with those EISs may be quantified using isotope dilution. Use the EIS recoveries from the original analysis to select the dilution factor, with the objective of keeping the EIS recoveries in the dilution above that 5% lower limit. If the adjusted EIS recoveries are below 5%, the dilution is assumed invalid. If the adjusted EIS recoveries are greater than 5%, adjust the compound concentrations, detection limits, and minimum levels to account for the dilution.

11. Data Evaluation, Calculations and Reporting

11.1 Complete chromatographic resolution is not necessary for accurate and precise measurements of analyte concentrations using MS/MS. In validating this method, concentrations were calculated by measuring the product ions listed in Table 9.

11.2 Calculate analyte concentrations using the multipoint calibration established in Section 10.9. Do not use daily calibration verification data to quantitate analytes in samples. Adjust final analyte concentrations to reflect the actual sample volume determined in Section 10.8

C_{ex} = (Area of target analyte * Concentration of Labeled analog) / (area of labeled analog * CF)

C_s = (C_{ex} / sample volume in ml) * 1000

C_{ex} = The concentration of the analyte in the extract
CF = calibration factor from calibration.

11.3 Prior to reporting the data, the chromatogram should be reviewed for any incorrect peak identification or poor integration.

11.4 PFHxS, PFOS, PFOA, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 7 due to the linear and branch isomers of these compounds (Sect. 10.10.4.). The areas of all the linear and branched isomer peaks observed in the CAL standards for each of these analytes must be summed and the concentrations reported as a total for each of these analytes.

11.5 Calculations must utilize all available digits of precision, but final reported concentrations should be rounded to an appropriate number of significant figures (one digit of uncertainty), typically two, and not more than three significant figures.

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

12.1 Section 9.0 outlines sample batch QC acceptance criteria. If non-compliant organic compound results are to be reported, the Organic Section Head and/or the Laboratory Director, and the Operations Manager must approve the reporting of these results. The laboratory Project Manager shall be notified and may choose to relay the non-compliance to the client, for approval, or other corrective action, such as re-sampling and re-analysis. The analyst, Data Reviewer, or Department Supervisor performing the secondary review initiates the project narrative, and the narrative must clearly document the non-compliance and provide a reason for acceptance of these results.

12.2 All results for the organic compounds of interest are reportable without qualification if extraction and analytical holding times are met, preservation requirements (including cooler temperatures) are met, all QC criteria are met, and matrix interference is not suspected during extraction or analysis of the samples. If any of the below QC parameters are not met, all associated samples must be evaluated for re-extraction and/or re-analysis.

13. Method Performance

13.1 Detection Limit Study (DL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

13.1.1 The laboratory follows the procedure to determine the DL, LOD, and/or LOQ as outlined in Alpha SOP ID 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

13.2.1 Refer to Alpha SOP ID 1739 for further information regarding IDC/DOC Generation.

13.2.2 The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

14.1 Refer to Alpha's Chemical Hygiene Plan and Hazardous Waste Management and Disposal SOP for further pollution prevention and waste management information.

14.2 This method utilizes SPE to extract analytes from water. It requires the use of very small volumes of organic solvent and very small quantities of pure analytes, thereby minimizing the potential hazards to both the analyst and the environment as compared to the use of large volumes of organic solvents in conventional liquid-liquid extractions.

14.3 The analytical procedures described in this method generate relatively small amounts of waste since only small amounts of reagents and solvents are used. The matrices of concern are finished drinking water or source water. However, laboratory waste management practices must be conducted consistent with all applicable rules and regulations, and that laboratories protect the air, water, and land by minimizing and controlling all releases from fume hoods and bench operations. Also, compliance is required with any sewage discharge permits and regulations, particularly the hazardous waste identification rules and land disposal restrictions.

15. Referenced Documents

Chemical Hygiene Plan – ID 2124

SOP ID 1732 Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) SOP

SOP ID 1739 Demonstration of Capability (DOC) Generation SOP

SOP ID 1728 Hazardous Waste Management and Disposal SOP

16. Attachments

Table 1: Names, Abbreviations, and CAS Registry Numbers for Target PFAS, Extracted Internal Standards and Non-extracted Internal Standards

Parameter	Acronym	CAS
PER- and POLYFLUOROALKYLETHER CARBOXYLIC ACIDS (PFECAs)		
Tetrafluoro-2-(heptafluoropropoxy)propanoic acid	HFPO-DA	13252-13-6
4,8-dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
PERFLUOROALKYLCARBOXILIC ACIDS (PFCAs)		
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9

Perfluorooctanoic acid	PFOA	335-67-1
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUnA	2058-94-8
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluorotridecanoic acid	PFTrDA	72629-94-8
Perfluoorotetradecanoic acid	PFTeDA	376-06-7
PERFLUOROALKYL SULFONIC ACIDS (PFASs)		
Perfluorobutanesulfonic acid	PFBS	375-73-5
Perfluoropentanesulfonic acid	PFPeS	2706-91-4
Perfluorohexanesulfonic acid	PFHxS	355-46-4
Perfluoroheptanesulfonic acid	PFHpS	375-92-8
Perfluorooctanesulfonic acid	PFOS	1763-23-1
Perfluorononanesulfonic acid	PFNS	68259-12-1
Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanesulfonic acid	PFDoS	79780-39-5
CHLORO-PERFLUOROALKYLSULFONATE		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	763051-92-9

Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	113507-82-7
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	9Cl-PF3ONS	756426-58-1
FLUOROTELOMER CARBOXYLIC ACIDS		
3-Perfluoropropyl propanoic acid	3:3FTCA	356-02-5
2H,2H,3H,3H-Perfluorooctanoic acid	5:3FTCA	914637-49-3
Perfluoroheptyl propanoic acid	7:3FTCA	812-70-4
PERFLUOROOCTANESULFONAMIDES		
Perfluorooctanesulfonamide	PFOSA	754-91-6
N-methylperfluoro-1-octanesulfonamide	NMeFOSA	31506-32-8
N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	4151-50-2
PERFLUOROCTANE SULFONAMIDE ETHANOLS		
N-Methyl perfluorooctanesulfonamidoethanol	NMeFOSE	24448-09-7
N-ethyl perfluorooctanesulfonamidoethanol	NEtFOSE	1691-99-2
TELOMER SULFONIC ACIDS		
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	4:2FTS	757124-72-4
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	6:2FTS	27619-97-2
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	8:2FTS	39108-34-4
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS		

N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2355-31-9
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2991-50-6
PERFLUOROETHER AND POLYETHER CARBOXYLIC ACIDS		
Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	113507-82-7
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6

Table 2: Stock and Nominal Extracted Internal Standard Concentrations

Isotope Labeled Standard	Conc. of EIS Stock (ng/mL)	Nominal amount of EIS added to extracts (ng)
M4PFBA	2000	40
M5PFPeA	1000	20
M5PFHxA	500	10
M4PFHpA	500	10
M8PFOA	500	10
M9PFNA	250	5
M6PFDA	250	5
M7PFUdA	250	5
MPFDoA	250	5
M2PFTeDA	250	5
M3PFBS	466	9.32
M3PFHxS	474	9.48
M8PFOS	479	9.58
M2-4:2FTS	938	18.8
M2-6:2FTS	951	19
M2-8:2FTS	960	19.2
M8FOSA	500	10
d3-N-MeFOSA	500	10
d5-N-EtFOSA	500	10
d3-N-MeFOSAA	1000	20
d5-N-EtFOSAA	1000	20
d7-N-MeFOSE	5000	100
d9-N-EtFOSE	5000	100
M3HFPO-DA	2000	40

Table 3: Stock and Nominal Non-Extracted Internal Standard Concentrations

Isotope Labeled Standard	Conc. of EIS Stock (ng/mL)	Nominal amount of EIS added to extracts (ng)
M3PFBA	1000	40
M2PFHxA	500	10
M4PFOA	500	10
M5PFNA	250	5
M2PFDA	250	5
18O2PFHxS	474	9.48
M4PFOS	479	9.58

Table 4: Initial Calibration levels and Concentrations

Analyte	Cal A	Cal B (LOQ)	CAL C	Cal D	Cal E (CCV)	Cal F	Cal G	Cal H	Cal I
PFBA	.4	.8	2	5	10	20	50	250	500
PFPeA	.2	.4	1	2.5	5	10	25	125	250
PFHxA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFHpA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFOA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFNA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFDA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFUnA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFDoA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFTrDA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFTA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
PFBS	0.089	0.177	0.444	1.11	2.22	4.44	11.1	55.4	111
PFPeS	0.094	0.188	0.471	1.18	2.35	4.71	11.8	58.8	118
PFHxS	0.091	0.183	0.457	1.14	2.29	4.57	11.4	57.1	114
PFHpS	0.095	0.191	0.477	1.19	2.38	4.77	11.9	59.6	119
PFOS	0.093	0.186	0.464	1.16	2.32	4.64	11.6	58	116
PFNS	0.096	0.192	0.481	1.20	2.41	4.81	12	60.1	120
PFDS	0.097	0.193	0.483	1.21	2.41	4.83	12.1	60.3	121
PFDOS	0.097	0.194	0.485	1.21	2.43	4.85	12.1	60.6	121.
4:2FTS	0.375	0.75	1.88	4.69	9.38	18.8	46.9	234	469
6:2FTS	0.38	0.76	1.9	4.75	9.5	19	47.5	238	475
8:2FTS	0.384	0.768	1.92	4.8	9.6	19.2	48	240	480
PFOSA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125

NMeFOSA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
NEtFOSA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
NMeFOSAA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
NEtFOSAA	.1	.2	.5	1.25	2.5	5	12.5	62.5	125
NMeFOSE	1	2	5	12.5	25	50	125	625	1250
NEtFOSE	1	2	5	12.5	25	50	125	625	1250
HFPO-DA	.4	.8	2	5	10	20	50	250	500
ADONA	0.378	0.756	1.89	4.73	9.45	18.9	47.3	236	473
9Cl-PFONS	0.374	0.748	1.87	4.68	9.35	18.7	46.8	234	468
11Cl-PFOUdS	0.378	0.756	1.89	4.73	9.45	18.9	47.3	236	473
PFMPA	.2	.4	1	2.5	5	10	25	125	250
PFMBA	.2	.4	1	2.5	5	10	25	125	250
PFEESA	0.178	0.356	0.89	2.23	4.45	8.9	22.3	111	223
NFDHA	.2	.4	1	2.5	5	10	25	125	250
3:3FTCA	.5	1	2.5	6.25	12.5	25	62.5	312	624
5:3FTCA	2.5	5	12.5	31.3	62.5	125	312	1560	3120
7:3FTCA	2.5	5	12.5	31.3	62.5	125	312	1560	3125
M4PFBA	10	10	10	10	10	10	10	10	10
M5PFPeA	5	5	5	5	5	5	5	5	5
M5PFHxA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
M4PFHpA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
M8PFOA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
M9PFNA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
M6PFDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
M7PFUdA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
MPFDoA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
M2PFTeDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
M3PFBS	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
M3PFHxS	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
M8PFOS	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
M2-4:2FTS	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69
M2-6:2FTS	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76
M2-8:2FTS	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
M8FOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
d3-N-MeFOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
d5-N-EtFOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

d3-N-MeFOSAA	5	5	5	5	5	5	5	5	5
d5-N-EtFOSAA	5	5	5	5	5	5	5	5	5
d7-N-MeFOSE	25	25	25	25	25	25	25	25	25
d9-N-EtFOSE	25	25	25	25	25	25	25	25	25
M3HFPO-DA	10	10	10	10	10	10	10	10	10
M3PFBA	5	5	5	5	5	5	5	5	5
M2PFHxA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
M4PFOA	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
M5PFNA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
M2PFDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
18O2PFHxS	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
M4PFOS	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4

Table 5: Expected Mass Transitions and instrument conditions.

Q1	Q2	Analyte	DP Volts	CE Volts
213.032	169.022	PFBA	-50	-14
263.039	219.03	PFPeA	-55	-12
263.039	68.9	PFPeA_2	-55	-55
313.047	269.037	PFHxA	-45	-12
313.047	119	PFHxA_2	-45	-28
363.055	319.045	PFHpA	-60	-12
363.055	169.022	PFHpA_2	-60	-24
413.063	369.053	PFOA	-65	-14
413.063	169.022	PFOA_2	-65	-23
463.071	419.061	PFNA	-70	-14
463.071	219.03	PFNA_2	-70	-24
513.078	469.069	PFDA	-80	-16
513.078	219.03	PFDA_2	-80	-30
563.086	519.076	PFUnA	-85	-18
563.086	269.037	PFUnA_2	-85	-25
613.094	569.084	PFDoA	-85	-18
613.094	319.045	PFDoA_2	-85	-28
663.102	619.092	PFTrDA	-85	-20
663.102	169.022	PFTrDA_2	-85	-36
713.11	669.1	PFTA	-70	-22
713.11	169.022	PFTA_2	-70	-38
299.092	80.062	PFBS	-100	-65

299.092	99.061	PFBS_2	-100	-40
349.1	80.062	PFPeS	-100	-75
349.1	99.061	PFPeS_2	-100	-60
399.107	80.062	PFHxS	-120	-75
399.107	99.061	PFHxS_2	-120	-80
449.115	80.062	PFHpS	-140	-95
449.115	99.061	PFHpS_2	-140	-80
499.113	80.062	PFOS	-145	-108
499.113	99.061	PFOS_2	-145	-85
549.131	80.062	PFNS	-180	-100
549.131	99.061	PFNS_2	-180	-100
599.139	80.062	PFDS	-170	-110
599.138	99.061	PFDS_2	-170	-100
699.154	80.062	PFDoS	-160	-150
699.154	99.061	PFDoS_2	-160	-130
327.146	307.139	4:2FTS	-100	-28
327.146	81.07	4:2FTS_2	-100	-50
427.161	407.155	6:2FTS	-120	-33
427.161	81.07	6:2FTS_2	-120	-65
527.177	507.17	8:2FTS	-140	-39
527.177	81.07	8:2FTS_2	-140	-85
498.146	78.07	FOSA	-150	-90
498.146	478	FOSA_2	-150	-35
512.163	219.03	NMeFOSA	-130	-35
512.163	169.022	NMeFOSA_2	-130	-40
526.192	219.03	NEtFOSA	-140	-35
526.192	169.022	NEtFOSA_2	-140	-35
570.202	419.061	NMeFOSAA	-100	-28
570.202	483	NMeFOSAA_2	-100	-22
584.229	419.061	NEtFOSAA	-100	-28
584.229	526.192	NEtFOSAA_2	-100	-38
616.1	58.9	NMeFOSE	-90	-70
630	58.9	NEtFOSE	-80	-75
285.035	169.022	HFPO-DA	-60	-12
285.035	184.9	HFPO-DA_2	-60	-18
377.06	251.028	ADONA	-65	-18
377.06	84.8	ADONA_2	-65	-48
530.8	351.05	9Cl-PFONS	-130	-38
532.8	353	9Cl-PFONS_2	-130	-38

630.9	451.031	11Cl-PFOUdS	-145	-41
632.9	452.9	11Cl-PFOUdS_2	-145	-41
241.085	177.069	3:3FTCA	-60	-12
241.085	117	3:3FTCA_2	-60	-50
341.101	237.072	5:3FTCA	-70	-20
341.101	217	5:3FTCA_2	-70	-35
441.117	316.9	7:3FTCA	-85	-30
441.117	337.088	7:3FTCA_2	-85	-20
315.093	135.013	PFEESA	-100	-35
315.093	82.9	PFEESA_2	-100	-25
229.032	85.006	PFMPA	-40	-25
279.042	85.006	PFMBA	-45	-25
295.032	201	NFDHA	-30	-15
295.032	84.9	NFDHA_2	-30	-40
217.001	171.999	MPFBA	-50	-14
268.001	222.999	M5PFPeA	-55	-12
318.009	273.007	M5PFHxA	-45	-12
367.024	322.022	M4PFHpA	-60	-12
421.002	376	M8PFOA	-65	-14
472.002	427	M9PFNA	-70	-14
519.033	474.03	M6PFDA	-80	-16
570.033	525.031	M7-PFUdA	-85	-18
615.079	570.033	MPFDoA	-85	-18
715.094	670.092	M2PFTeDA	-70	-22
302.069	80.062	M3PFBS	-100	-65
402.084	80.062	M3PFHxS	-120	-74
507.062	80.062	M8PFOS	-145	-85
329.13	81.07	M2-4:2FTS	-100	-50
429.162	81.07	M2-6:2FTS	-120	-65
529.162	81.07	M2-8:2FTS	-140	-85
506.077	78.07	M8FOSA	-150	-90
515.183	219.03	d3-NMeFOSA	-130	-35
531.222	219.03	d5-NEtFOSA	-140	-35
573.22	419.061	d3-NMeFOSAA	-75	-28
589.259	419.061	d5-NEtFOSAA	-90	-28
623.2	58.9	d7-NMeFOSE	-100	-28
639.2	58.9	d9-NEtFOSE	-100	-28
287.02	169.022	M3HFPO-DA	-60	-12
216.009	171.999	M3PFBA	-50	-14

315.032	270.03	M2PFHxA	-45	-12
417.032	372.03	M4PFOA	-65	-14
468.032	423.03	M5PFNA	-70	-14
515.063	470.061	M2PFDA	-80	-16
403.107	84.062	18O2-PFHxS	-120	-74
503.093	80.062	M4PFOS	-145	-85

Table 6: LC Method Conditions

Time (min)	2 mM Ammonium Acetate (5:95 CH/H_2O)	100% Acetonitrile	Gradient Curve
Initial	100.0	0.0	0
.2	100.0	0.0	2
4	70	30	7
7	45	55	8
9	25	80	8
10	5	95	6
10.4	98	2	10
11.8	100	0	7
12	100	0	1
Waters Aquity UPLC ® BEHC_{18} 2.1 x 50 mm packed with 1.7 µm BEH C_{18} stationary phase Flow rate of 0.4 mL/min 2 µL injection			

Table 7: ESI-MS Method Conditions

ESI Conditions	
Polarity	Negative ion
Curtain Gas	30
Collision gas	9
Ion Spray Voltage	-4500
Desolvation gas temp.	500 ºC
Ion Source Gas 1	30
Ion Source Gas 2	50
Entrance Poitential	-10
Exic Cell Potential	-11

Table 8. Reporting limits by Matrix

Compound	Aqueous (ng/L)	Solid (ng/g)	Tissue (ng/g)
PFBA	6.4	0.8	2
PFPeA	3.2	0.4	1
PFHxA	1.6	0.2	0.5
PFHpA	1.6	0.2	0.5
PFOA	1.6	0.2	0.5
PFNA	1.6	0.2	0.5
PFDA	1.6	0.2	0.5
PFUnA	1.6	0.2	0.5
PFDoA	1.6	0.2	0.5
PFTrDA	1.6	0.2	0.5
PFTA	1.6	0.2	0.5
PFBS	1.6	0.2	0.5
PFPeS	1.6	0.2	0.5
PFHxS	1.6	0.2	0.5
PFHpS	1.6	0.2	0.5
PFOS	1.6	0.2	0.5
PFNS	1.6	0.2	0.5
PFDS	1.6	0.2	0.5
PFDoS	1.6	0.2	0.5
4:2FTS	6.4	0.8	2
6:2FTS	6.4	0.8	2
8:2FTS	6.4	0.8	2
FOSA	1.6	0.2	2
NMeFOSA	1.6	0.2	0.5
NEtFOSA	1.6	0.2	0.5
NMeFOSAA	1.6	0.2	0.5
NEtFOSAA	1.6	0.2	0.5
NMeFOSE	16	2	5
NEtFOSE	16	2	5
HFPO-DA	6.4	0.8	2
ADONA	6.4	0.8	2
9Cl-PFONS	6.4	0.8	2
11Cl-PFOUdS	6.4	0.8	2
3:3FTCA	8	1	2.5
5:3FTCA	40	5	12.5

7:3FTCA	40	5	12.5
PFEESA	3.2	0.4	1
PFMPA	3.2	0.4	1
PFMBA	3.2	0.4	1
NFDHA	3.2	0.4	1

APPENDIX D
COMMUNITY AIR MONITORING PLAN

COMMUNITY AIR MONITORING PLAN

for

1480 SHERIDAN BOULEVARD
BRONX, NEW YORK
BCP SITE NO. TBD

Prepared For

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1250 Waters Place, PH-1
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July 2026
Langan Project No. 170970901

LANGAN

1.0 Introduction

This site-specific community air monitoring plan (CAMP) was prepared in general compliance with the New York State Department of Health (NYSDOH) Generic CAMP and is intended to mitigate potential exposures of sensitive receptors to nuisance odors and dust resulting from ground-intrusive work. This CAMP is intended for implementation during implementation of the Remedial Action Work Plan (RAWP), which includes but is not limited to, soil/fill excavation and handling and utility trenching.

2.0 Community Air Monitoring

Monitoring for particulates and odors will be conducted during ground-intrusive work by a Langan field representative under the supervision of the remedial engineer (RE). The CAMP will include real-time monitoring for VOCs and particulates at the downwind perimeter of each designated work area when ground-intrusive work is in progress. Continuous monitoring will be required for all ground-intrusive work. Ground-intrusive work includes, but is not limited to, advancement of soil borings and soil/fill excavation and handling. The work zone is defined as the general area in which machinery is operating in support of remediation. A portable photoionization detector (PID) will be used to monitor the work zone and for periodic monitoring of total VOC levels during work such as soil sampling. The site perimeter will be visually monitored for fugitive dust emissions.

The following actions will be taken based on VOC levels measured:

- If total VOC levels exceed 5 parts per million (ppm) above background for the 15-minute average at the perimeter, work activities will be temporarily halted and monitoring continued. If levels readily decrease (per instantaneous readings) below 5 parts per million (ppm) above background, work activities will resume with continued monitoring.
- If total VOC levels at the downwind perimeter of the work zone persist at levels in excess of 5 ppm above background but less than 25 ppm, work will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work will resume provided that the total VOC level 200 feet downwind of the hot zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less, but in no case less than 20 feet, is below 5 ppm above background for the 15-minute average.
- If the total VOC level is above 25 ppm at the perimeter of the hot zone, work will be shut down.

The following actions will be taken based on instrumentation measurements:

- If the downwind particulate level is 100 micrograms per cubic meter (µg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression must be employed. Work may continue with dust suppression techniques provided that downwind PM10 levels do not exceed 150 µg/m^3 above the background level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM10 levels are greater than 150 µg/m³ above the background level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m³ of the upwind level and in preventing visible dust migration.

3.0 Odor, Vapor, and Dust Suppression Techniques

Preventative measures for dust generation may include wetting site fill and soil, construction of an engineered construction entrance with gravel pad, use of a truck wash area, covering soils with tarps, and limiting vehicle speeds to five miles per hour.

Work practices to minimize odors and vapors include minimizing open storage of contaminated-source soil and handling of contaminated material. Offending odor and organic vapor controls may include the application of foam suppressants, or placing polyethylene sheeting or non-odorous soil over the odor or VOC source areas for short-term control of the odor and VOCs.

If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: direct load-out of soils to trucks for off-site disposal; use of chemical odorants in spray or misting systems; and, use of staff to monitor odors in surrounding neighborhoods.

4.0 Monitoring of Nearby Occupied Structures

This section applies where structures within about 20 feet of the ground-intrusive work may be occupied during the planned remedial action. Where this condition exists, the following will be considered for incorporation into the CAMP:

- One of the CAMP monitoring stations will be placed between the remedial work area and nearest outside wall of the occupied structure. If site conditions warrant, a third station may be used to accomplish this task.
    - If 15-minute-average total VOC concentrations exceed 1 ppm above background near the outside wall or next to intake vents of the occupied structure, periodic VOC monitoring will be performed within the occupied structure.
    - If 15-minute-average total PM10 concentrations exceed 150 µg/m³ above background near the outside wall or next to intake vents of the occupied structure, work activities will be temporarily suspended until suppression techniques are implemented and concentrations return to background.
- Where nuisances have developed during remedial work and cannot be corrected using the techniques described in Section 3.0, use of additional engineering controls may be considered, such as vapor/dust barriers or ventilation devices.

- Consideration should be given to scheduling or sequencing ground-intrusive activities during periods when potentially exposed populations may not be occupying the structure.

5.0 Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Depending upon the nature of contamination, chemical-specific colorimetric tubes of sufficient sensitivity may be necessary for comparing the exposure point concentrations with appropriate pre-determined response levels (response actions should also be pre-determined). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.
- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 µg/m^3, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 µg/m^3 or less at the monitoring point.
- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

6.0 Special Requirements for Indoor Work With Co-Located Residences or Facilities

Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements shall be as stated above under "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures" except that in this instance "nearby/occupied structures" would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge points, as well as potential vapor pathways (openings, conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, it is strongly recommended that exhaust fans or other

engineering controls be used to create negative air pressure within the work area during remedial activities. Additionally, it is strongly recommended that the planned work be implemented during hours (e.g. weekends or evenings) when building occupancy is at a minimum.

7.0 Reporting

A summary of CAMP findings, including triggered action levels, will be provided daily to the NYSDEC and NYSDOH project managers as part of daily reporting. In addition to a summary of CAMP findings, daily reports will include:

- The NYSDEC assigned project number
- An update of progress made during the reporting day including a photograph log
- Locations of work and quantities of material imported and exported from the site
- References to an alpha-numeric map for site activities
- A summary of complaints with relevant details (names, phone numbers)
- A summary of CAMP findings, including exceedances, wind direction, work areas, location of CAMP monitoring stations and other relevant site information (exceedances of the 15-minute time weighted average will be reported to the NYSDEC as soon as they are calculated)
- An explanation of notable site conditions

Daily Reports will include a description of daily activities keyed to an alpha-numeric map for the site that identifies work areas. These reports will include a summary of air sampling results, odor and dust problems and corrective actions, and all complaints received from the public.

Daily reports are not intended to be the mode of communication for notification to the NYSDEC of emergencies (accident, spill), requests for changes to the RAWP, or other sensitive or time critical information; however, such conditions must also be included in the daily reports. Emergency conditions and changes to the RAWP will be addressed directly to NYSDEC Project Manager via personal communication.

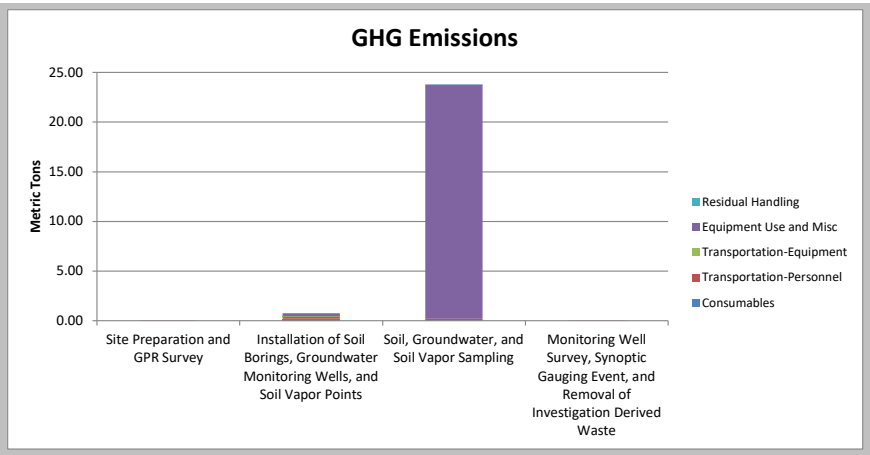
APPENDIX E

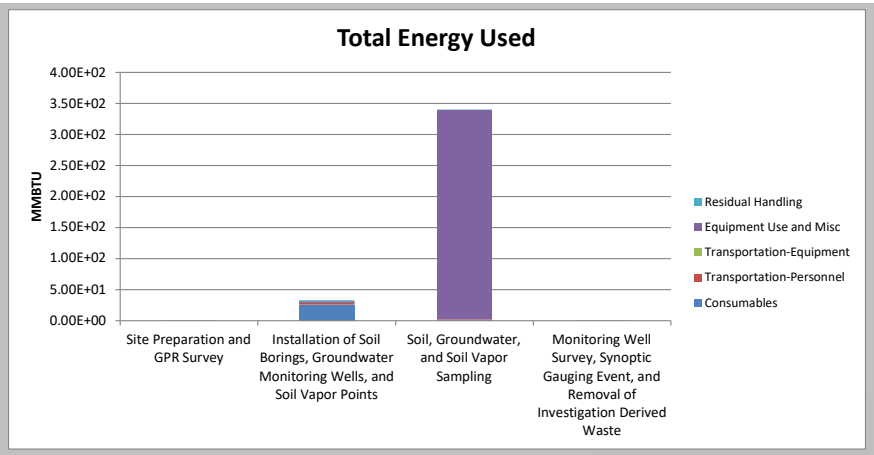
ENVIORNMENTAL FOOTPRINT SUMMARY

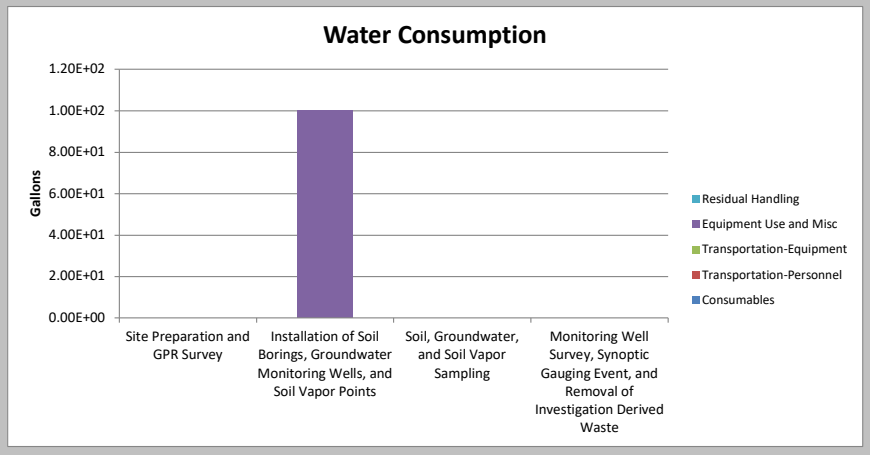
Sustainable Remediation - Environmental Footprint Summary

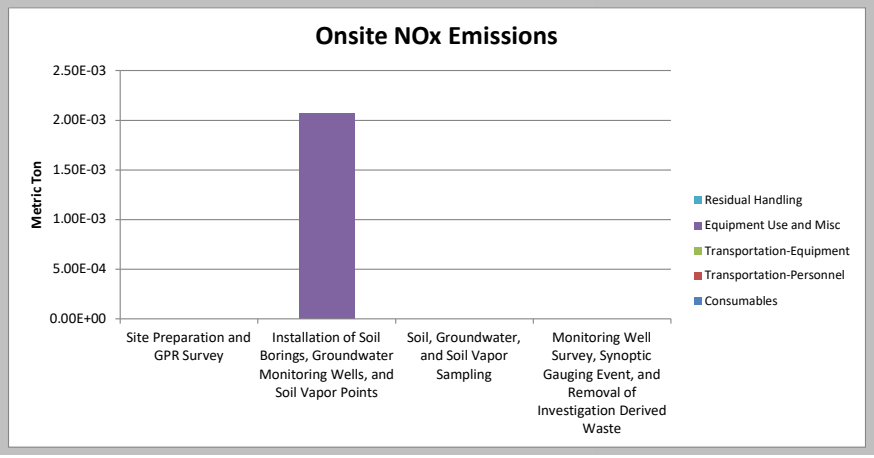
Phase	Activities	GHG Emissions	Total Energy Used	Water Consumption	Electricity Usage	Onsite NOx Emissions	Onsite SOx Emissions	Onsite PM10 Emissions	Total NOx Emissions	Total SOx Emissions	Total PM10 Emissions	Accident Risk Fatality	Accident Risk Injury
		metric ton	MMBTU	gallons	MWH	metric ton	metric ton	metric ton	metric ton	metric ton	metric ton		
Site Preparation and GPR Survey	Consumables	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	NA	NA
	Transportation-Personnel	0.01	1.5E-01	NA	NA	NA	NA	NA	3.7E-06	4.0E-06	7.3E-07	2.0E-07	1.6E-05
	Transportation-Equipment	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Equipment Use and Misc	0.00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.1E-07	9.2E-05
	Residual Handling	0.00	0.0E+00	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sub-Total	0.01	1.50E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-06	4.00E-06	7.27E-07	4.10E-07	1.08E-04
Installation of Soil Borings, Groundwater Monitoring	Consumables	0.19	2.6E+01	NA	NA	NA	NA	NA	3.5E-04	5.3E-04	7.4E-05	NA	NA
	Transportation-Personnel	0.27	3.4E+00	NA	NA	NA	NA	NA	1.1E-04	2.3E-05	1.5E-05	7.2E-06	5.8E-04
	Transportation-Equipment	0.00	2.1E-02	NA	NA	NA	NA	NA	5.1E-07	9.0E-09	4.5E-08	5.2E-07	4.2E-05
	Equipment Use and Misc	0.22	2.6E+00	1.0E+02	0.0E+00	2.1E-03	2.1E-04	1.9E-04	2.2E-03	2.7E-04	2.0E-04	7.1E-06	2.1E-03
	Residual Handling	0.10	1.4E+00	NA	NA	0.0E+00	0.0E+00	0.0E+00	3.3E-05	1.4E-06	2.7E-06	5.9E-07	4.7E-05
	Sub-Total	0.78	3.30E+01	1.00E+02	0.00E+00	2.06E-03	2.11E-04	1.86E-04	2.67E-03	8.27E-04	2.96E-04	1.55E-05	2.82E-03
Soil, Groundwater, and Soil Vapor Sampling	Consumables	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	NA	NA
	Transportation-Personnel	0.18	2.3E+00	NA	NA	NA	NA	NA	6.8E-05	2.4E-06	1.4E-05	3.7E-06	3.0E-04
	Transportation-Equipment	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Equipment Use and Misc	23.59	3.4E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-01	8.5E-02	9.4E-03	5.4E-07	6.6E-04
	Residual Handling	0.00	4.3E-03	NA	NA	0.0E+00	0.0E+00	0.0E+00	1.3E-06	6.8E-07	3.6E-06	0.0E+00	0.0E+00
	Sub-Total	23.77	3.40E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	8.49E-02	9.45E-03	4.28E-06	9.61E-04
Monitoring Well Survey, Synoptic Gauging Event,	Consumables	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	NA	NA
	Transportation-Personnel	0.01	1.4E-01	NA	NA	NA	NA	NA	3.5E-06	4.0E-06	6.9E-07	3.6E-07	3.0E-05
	Transportation-Equipment	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Equipment Use and Misc	0.00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.8E-08	2.2E-05
	Residual Handling	0.00	0.0E+00	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sub-Total	0.01	1.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	3.99E-06	6.93E-07	3.83E-07	5.18E-05
Total		**2.5E+01**	**3.7E+02**	**1.0E+02**	**0.0E+00**	**2.1E-03**	**2.1E-04**	**1.9E-04**	**1.2E-01**	**8.6E-02**	**9.7E-03**	**2.1E-05**	**3.9E-03**

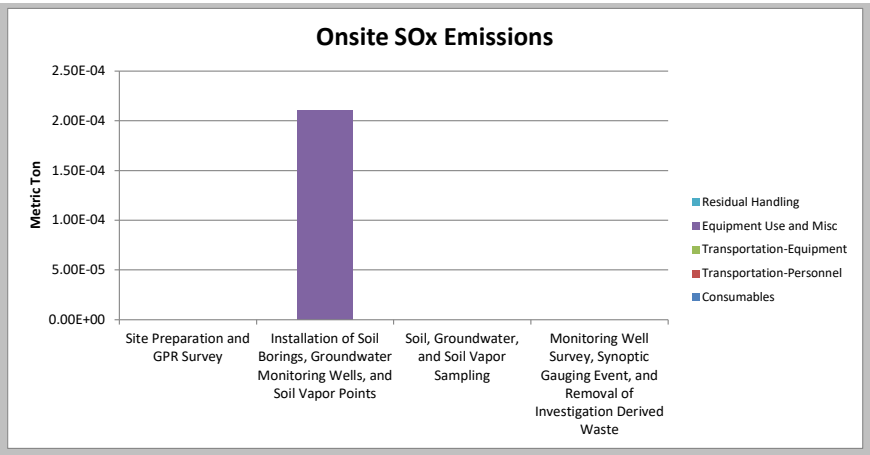
Remedial Alternative Phase	Non-Hazardous Waste Landfill Space	Hazardous Waste Landfill Space	Topsoil Consumption	Costing	Lost Hours - Injury	Percent electricity from renewable sources	Total Cost with Footprint Reduction
	tons	tons	cubic yards	$		%	
Site Preparation and	0.0E+00	0.0E+00	0.0E+00	0	8.7E-04	0.0%	
Installation of Soil	0.0E+00	0.0E+00	0.0E+00	0	2.3E-02	0.0%	
Soil, Groundwater, and	2.0E-02	0.0E+00	0.0E+00	0	7.7E-03	0.0%	$0
Monitoring Well Survey,	0.0E+00	0.0E+00	0.0E+00	0	4.1E-04	0.0%	
Total	**2.0E-02**	**0.0E+00**	**0.0E+00**	**$0**	**3.1E-02**	**0.0%**	

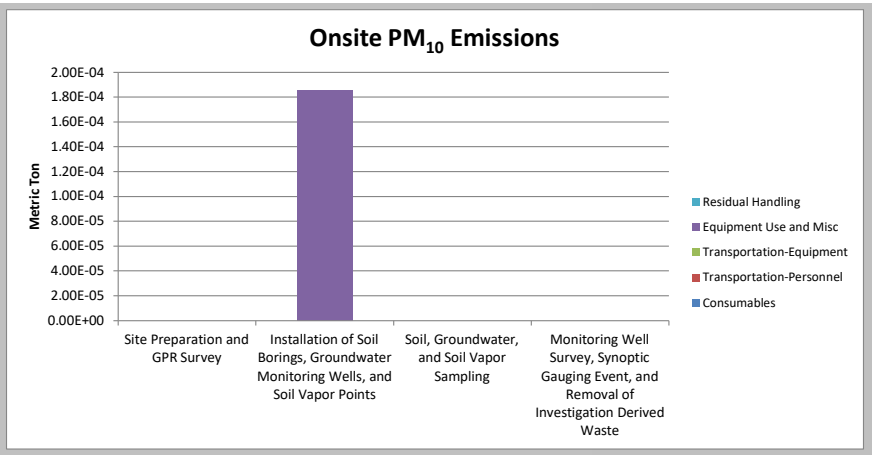

GHG Emissions
Metric Tons
25.00
20.00
15.00
10.00
5.00
0.00
Site Preparation and GPR Survey
Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Points
Soil, Groundwater, and Soil Vapor Sampling
Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

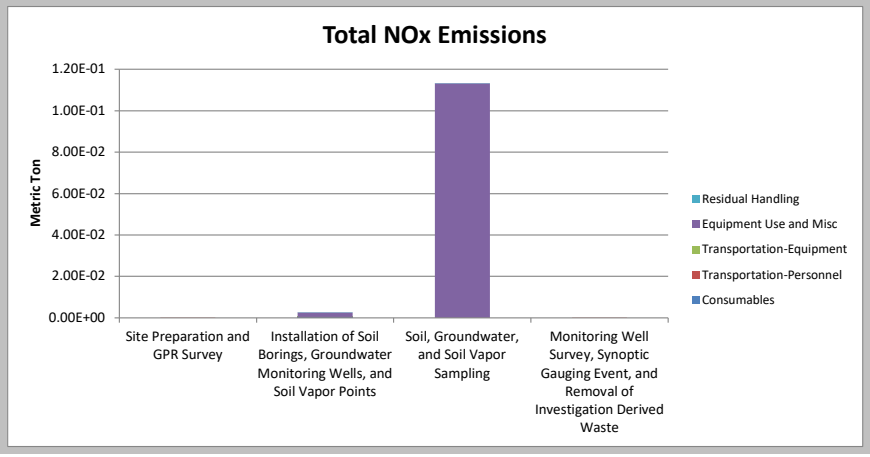

Total Energy Used
MMBTU
4.00E+02
3.50E+02
3.00E+02
2.50E+02
2.00E+02
1.50E+02
1.00E+02
5.00E+01
0.00E+00
Site Preparation and GPR Survey
Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Points
Soil, Groundwater, and Soil Vapor Sampling
Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

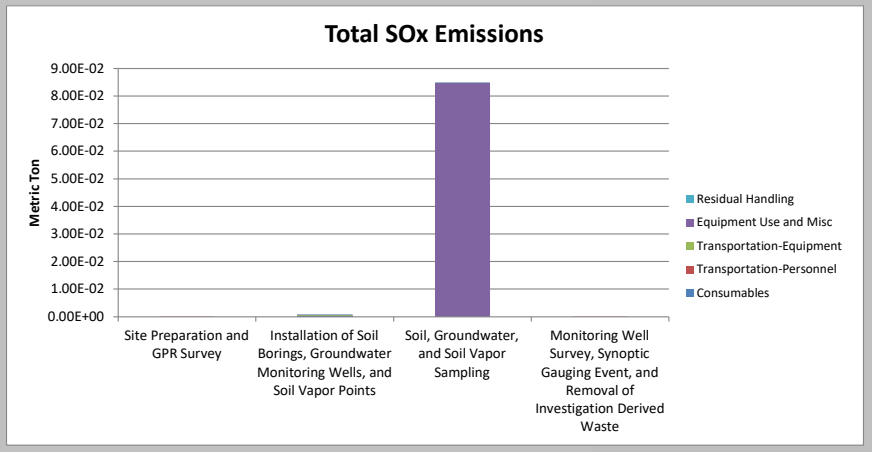

Water Consumption
Gallons
1.20E+02
1.00E+02
8.00E+01
6.00E+01
4.00E+01
2.00E+01
0.00E+00
Site Preparation and GPR Survey
Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Points
Soil, Groundwater, and Soil Vapor Sampling
Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

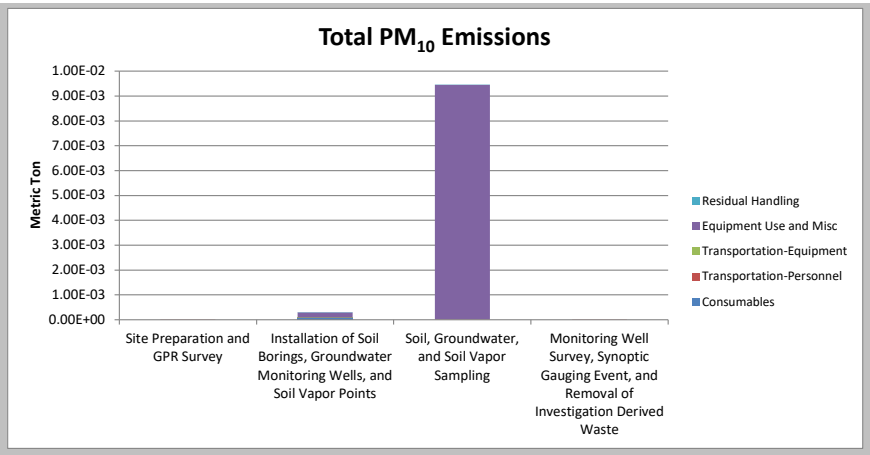

Onsite NOx Emissions
Metric Ton
2.50E-03
2.00E-03
1.50E-03
1.00E-03
5.00E-04
0.00E+00
Site Preparation and GPR Survey
Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Points
Soil, Groundwater, and Soil Vapor Sampling
Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

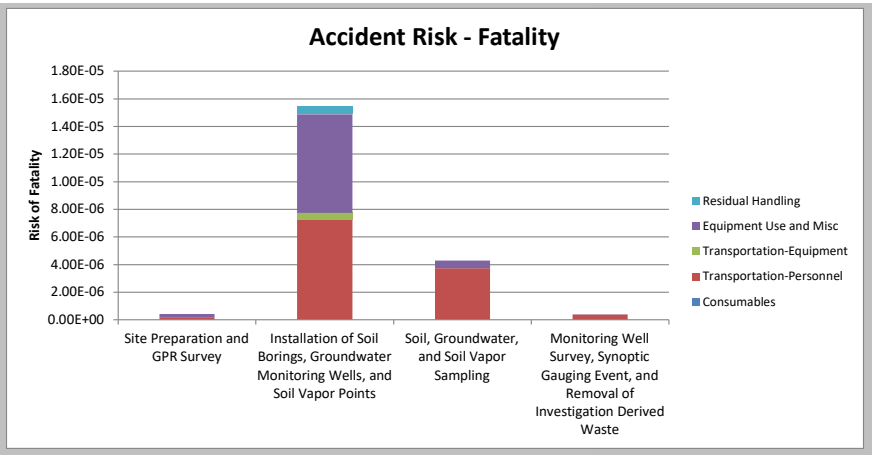

Onsite SOx Emissions
Metric Ton
2.50E-04
2.00E-04
1.50E-04
1.00E-04
5.00E-05
0.00E+00
Site Preparation and GPR Survey
Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Points
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Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

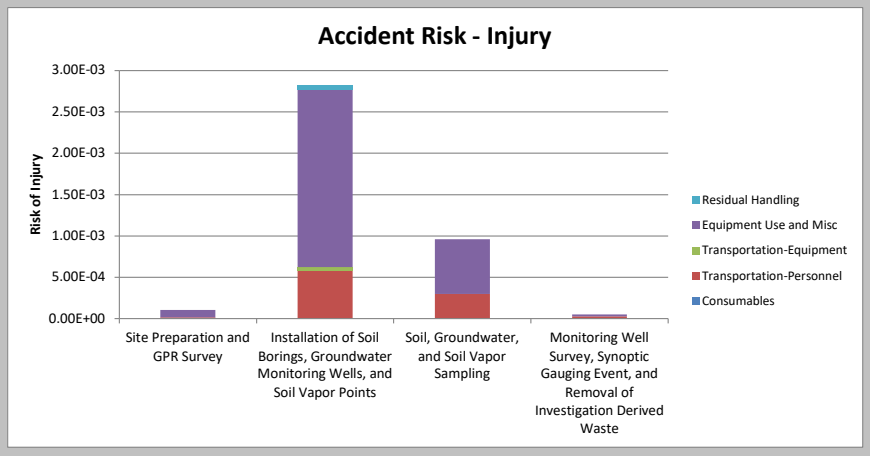

Onsite PM10 Emissions
Metric Ton
2.00E-04
1.80E-04
1.60E-04
1.40E-04
1.20E-04
1.00E-04
8.00E-05
6.00E-05
4.00E-05
2.00E-05
0.00E+00
Site Preparation and GPR Survey
Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Points
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Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

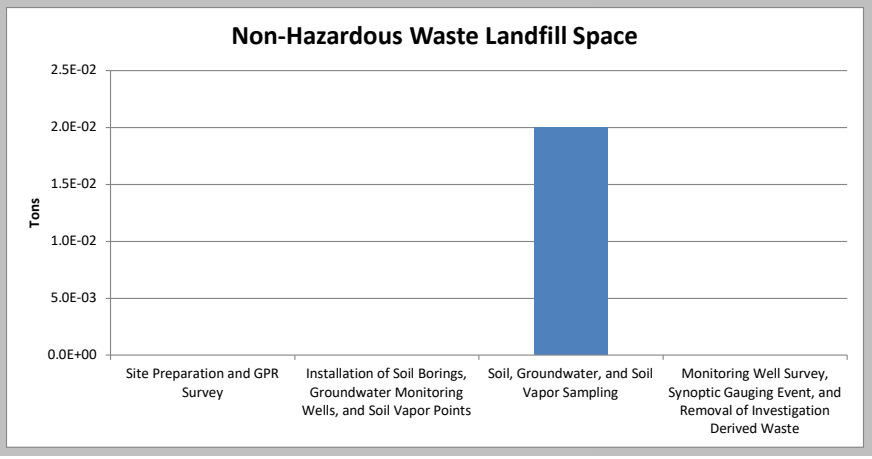

Total NOx Emissions
Metric Ton
1.20E-01
1.00E-01
8.00E-02
6.00E-02
4.00E-02
2.00E-02
0.00E+00
Site Preparation and GPR Survey
Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Points
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Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

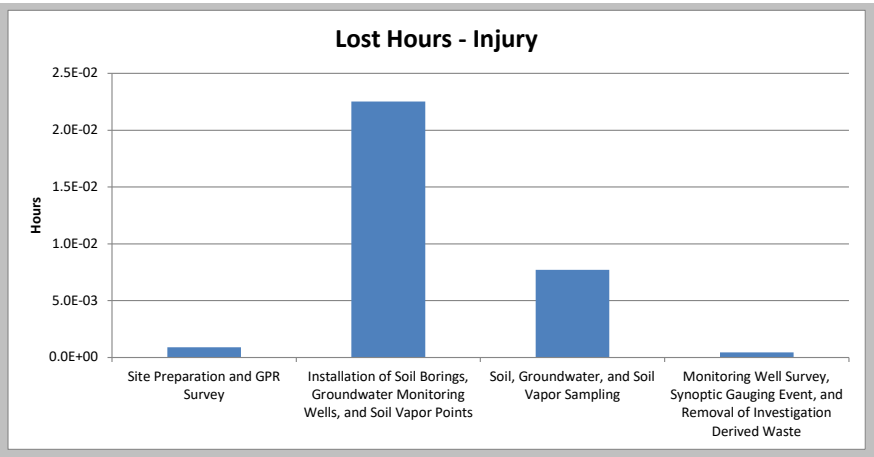

Total SOx Emissions
Metric Ton
9.00E-02
8.00E-02
7.00E-02
6.00E-02
5.00E-02
4.00E-02
3.00E-02
2.00E-02
1.00E-02
0.00E+00
Site Preparation and GPR Survey
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Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables


Total PM10 Emissions
Metric Ton
1.00E-02
9.00E-03
8.00E-03
7.00E-03
6.00E-03
5.00E-03
4.00E-03
3.00E-03
2.00E-03
1.00E-03
0.00E+00
Site Preparation and GPR Survey
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Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables


Accident Risk - Fatality
Risk of Fatality
1.80E-05
1.60E-05
1.40E-05
1.20E-05
1.00E-05
8.00E-06
6.00E-06
4.00E-06
2.00E-06
0.00E+00
Site Preparation and GPR Survey
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Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables


Accident Risk - Injury
Risk of Injury
3.00E-03
2.50E-03
2.00E-03
1.50E-03
1.00E-03
5.00E-04
0.00E+00
Site Preparation and GPR Survey
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Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables


Non-Hazardous Waste Landfill Space
Tons
2.5E-02
2.0E-02
1.5E-02
1.0E-02
5.0E-03
0.0E+00
Site Preparation and GPR Survey
Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Points
Soil, Groundwater, and Soil Vapor Sampling
Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste


Lost Hours - Injury
Hours
2.5E-02
2.0E-02
1.5E-02
1.0E-02
5.0E-03
0.0E+00
Site Preparation and GPR Survey
Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Points
Soil, Groundwater, and Soil Vapor Sampling
Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste

SITE INFORMATION	
User Name and Date	
Site Name	1480 Sheridan Boulevard - Southern Lot
Remedial Alternative Name	
Alternative File Name	
Choose electricity profile	NY

Component	Component Alias
Component 1	Site Preparation and GPR Survey
Component 2	Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Points
Component 3	Soil, Groundwater, and Soil Vapor Sampling
Component 4	Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste

Do you want to reload a previously saved remedial alternative in the SiteWise input sheet?

Yes | Refresh List

Reset all input values on all worksheets to default

Reset All Values on All Sheets

-= Status =-

Reset complete.

BATTELLE

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Version 3.2

Instructions

This worksheet allows the user to define material production, transportation, equipment use, and residual handling variables for the remedial alternative
Yellow cells require the user to choose an input from a drop down menu
White cells require the user to type in a value

BASELINE INFORMATION

COMPONENT 1 DURATION AND COST	Entire Site
Input duration of the component (unit time)	1
Input component cost per unit time ($)	

MATERIAL PRODUCTION

WELL MATERIALS	Well Type 1	Well Type 2	Well Type 3	Well Type 4	Well Type 5	Well Type 6	Well Type 7	Well Type 8	Well Type 9	Well Type 10	Well Type 11	Well Type 12
Input number of wells												
Input depth of wells (ft)												
Choose specific casing material schedule from drop down menu	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC
Choose well diameter (in) from drop down menu	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
Input total quantity of Sand (kg)												
Input total quantity of Gravel (kg)												
Input total quantity of Bentonite (kg)												
Input total quantity of Typical Cement (kg)												
Input total quantity of General Concrete (kg)												
Input total quantity of Steel (kg)												

TREATMENT CHEMICALS & MATERIALS	Treatment 1	Treatment 2	Treatment 3	Treatment 4	Treatment 5	Treatment 6	Treatment 7	Treatment 8	Treatment 9	Treatment 10	Treatment 11	Treatment 12
Input number of injection points												
Choose material type from drop down menu	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide
Input amount of material injected at each point (pounds dry mass)												
Input number of injections per injection point												

TREATMENT MEDIA	Treatment 1	Treatment 2	Treatment 3	Treatment 4	Treatment 5	Treatment 6	Treatment 7	Treatment 8	Treatment 9	Treatment 10	Treatment 11	Treatment 12
Input weight of media used (lbs)												
Choose media type from drop down menu	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC

CONSTRUCTION MATERIALS	Material 1	Material 2	Material 3	Material 4	Material 5	Material 6	Material 7	Material 8	Material 9	Material 10	Material 11	Material 12
Choose material type from drop down menu	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner
Input area of material (ft2)												
Input depth of material (ft)												

WELL DECOMMISSIONING	Well Type 1	Well Type 2	Well Type 3	Well Type 4	Well Type 5	Well Type 6	Well Type 7	Well Type 8	Well Type 9	Well Type 10	Well Type 11	Well Type 12
Input number of wells												
Input depth of wells (ft)												
Input well diameter (in)												
Choose material from drop down menu	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

SILT CURTAIN MATERIALS	Curtain 1	Curtain 2	Curtain 3	Curtain 4	Curtain 5	Curtain 6	Curtain 7	Curtain 8	Curtain 9	Curtain 10	Curtain 11	Curtain 12
Input length or perimeter of silt curtain (ft)												
Input depth of silt curtain (ft)												

BULK MATERIAL QUANTITIES	Material 1	Material 2	Material 3	Material 4	Material 5	Material 6	Material 7	Material 8	Material 9	Material 10	Material 11	Material 12
Choose material from drop down menu	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid
Choose units of material quantity from drop down menu	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds
Input material quantity												

TRANSPORTATION

PERSONNEL TRANSPORTATION - ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Choose vehicle type from drop down menu*	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input distance traveled per trip (miles)	12.0											
Input number of trips taken	2											
Input number of travelers	1											
Input estimated vehicular fuel economy (mi/gal) (Input only if known for the vehicle selected, otherwise a default will be used by the tool)												
*For vehicle type 'Other' please enter values in Table 2b in the Look Up Table tab.												

PERSONNEL TRANSPORTATION - AIR	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input number of travelers												
Input number of flights taken												

PERSONNEL TRANSPORTATION - RAIL	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Choose vehicle type from drop down menu	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail
Input distance traveled (miles)	11.4											
Input number of trips taken	2											
Input number of travelers	1											

EQUIPMENT TRANSPORTATION - DEDICATED LOAD ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Account for an empty return trip?	No	No	No	No	No	No	No	No	No	No	No	No
Input one-way distance traveled (miles) with a given load. If applicable, impact for an empty return trip will be accounted for (no additional input is needed).												
Input weight of equipment transported per truck load (tons)												

EQUIPMENT TRANSPORTATION - SHARED LOAD ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of equipment transported (tons)												

EQUIPMENT TRANSPORTATION - AIR	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of equipment transported (tons)												

EQUIPMENT TRANSPORTATION - RAIL	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of load (tons)												

EQUIPMENT TRANSPORTATION - WATER	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (mile)												
Input weight of load (tons)												

EQUIPMENT USE

EARTHWORK	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose earthwork equipment type from drop down menu	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be removed (yd3)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

DRILLING	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Event 12
Input number of drilling locations												
Choose drilling method from drop down menu	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push
Input time spent drilling at each location (hr)												
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel

TRENCHING	Trencher 1	Trencher 2	Trencher 3	Trencher 4	Trencher 5	Trencher 6	Trencher 7	Trencher 8	Trencher 9	Trencher 10	Trencher 11	Trencher 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
Input operating hours (hr)												

SEDIMENT DREDGING	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose dredge equipment type from drop down menu	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Choose dredge fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be dredged (yd3)												
Choose dredge equipment size	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1 C
Suggested dredge equipment size	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1
Input number of dredge tenders (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Choose dredge tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for dredge tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of scow tenders (default already present, user override possible)	2	2	2	2	2	2	2	2	2	2	2	2
Choose scow tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for scow tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of research vessels (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Input operating time for research vessels (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

SEDIMENT MANAGEMENT (STAGING AND DRYING)	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose earthwork equipment type from drop down menu	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be removed (yd3)												
Is volume input that of saturated sediment?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Will the sediment be dry when this work is performed?	No	No	No	No	No	No	No	No	No	No	No	No
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

SEDIMENT CAPPING	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose capping method from drop down menu	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release
Choose capping equipment fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of capping material to be placed (yd3)												
Choose capping equipment size/type	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge
Suggested capping equipment size/type	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge
Input number of dredge tenders (hr) (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Choose tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for dredge tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of scow tenders (default already present, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose scow tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for scow tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of research vessels (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Input operating time for research vessels (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

WATERCRAFT OPERATION	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of vessels												
Input operating time (hours)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

For each pump, select only one of the three methods to calculate energy and GHG emissions
Enter "0" for all user input values for unused pump columns or unused methods

PUMP OPERATION	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Pump 9	Pump 10	Pump 11	Pump 12
Choose method from drop down	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1
Method 1 - ELECTRICAL USAGE IS KNOWN												
Input pump electrical usage (KWh)	0	0	0	0	0	0	0	0	0	0	0	0
Method 2 - PUMP HEAD IS KNOWN												
Input flow rate (gpm)	0	0	0	0	0	0	0	0	0	0	0	0
Input total head (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of pumps operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each pump (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Pump efficiency (default already present, user override possible)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Pump motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Input specific gravity (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Method 3 - NAME PLATE SPECIFICATIONS ARE KNOWN												
Input pump horsepower (hp)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of pumps operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each pump (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Percent of max speed for pump motor (Optional input for variable speed motor)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Pump load if max motor speed draws full nameplate horsepower	1	1	1	1	1	1	1	1	1	1	1	1
Input pump load (default already present, user override possible, consider above value)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Pump motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

DIESEL AND GASOLINE PUMPS	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Pump 9	Pump 10	Pump 11	Pump 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1
Equipment operating hours (hrs)												
Input estimated fuel consumption rate (gal/hr) (Input only if known for the pump selected, otherwise a default will be used by the tool)												

For each type of equipment, select only one of the methods to calculate energy and GHG emissions
Enter "0" for all user input values for unused equipment columns or unused methods

BLOWER, COMPRESSOR, MIXER, AND OTHER EQUIPMENT	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose type of equipment from drop down	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower
Choose method from drop down	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1
Method 1 - NAME PLATE SPECIFICATIONS ARE KNOWN												
Input equipment horsepower (hp)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of equipments operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each equipment (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Percent of max speed for motor (Optional input for variable speed motor)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Equipment load if max motor speed draws full nameplate horsepower	1	1	1	1	1	1	1	1	1	1	1	1
Input equipment load (default already present, user override possible, consider above value)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Equipment motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Method 2 - ELECTRICAL USAGE IS KNOWN												
Input equipment electrical usage, if known (kWh)	0	0	0	0	0	0	0	0	0	0	0	0
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

GENERATORS	Generator 1	Generator 2	Generator 3	Generator 4	Generator 5	Generator 6	Generator 7	Generator 8	Generator 9	Generator 10	Generator 11	Generator 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Input operating hours (hr)												

AGRICULTURAL EQUIPMENT	Tillage Tractor 1	Tillage Tractor 2	Tillage Tractor 3	Tillage Tractor 4	Tillage Tractor 5	Tillage Tractor 6	Tillage Tractor 7	Tillage Tractor 8	Tillage Tractor 9	Tillage Tractor 10	Tillage Tractor 11	Tillage Tractor 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input area to till (acre)												
Choose soil condition from drop down menu	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil
Choose soil type from drop down menu	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil
Input time available (work days)												
Input depth of tillage (in)												

CAPPING EQUIPMENT	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose stabilization equipment type from drop down menu	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input area (ft2)												
Input time available (work days)												

MIXING EQUIPMENT	Mixer 1	Mixer 2	Mixer 3	Mixer 4	Mixer 5	Mixer 6	Mixer 7	Mixer 8	Mixer 9	Mixer 10	Mixer 11	Mixer 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
Input volume (yd3)												
Input production rate (yd3/hr)												
Input estimated fuel consumption rate (gal/hr) (Input only if known for the mixer selected, otherwise a default will be used by the tool)												

INTERNAL COMBUSTION ENGINES	Engine 1	Engine 2	Engine 3	Engine 4	Engine 5	Engine 6	Engine 7	Engine 8	Engine 9	Engine 10	Engine 11	Engine 12
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input fuel consumption rate (gal/hr or scf/hr)												
Input operating hours (hr)												

OTHER FUELED EQUIPMENT	Fuel 1	Fuel 2	Fuel 3	Fuel 4	Fuel 5	Fuel 6	Fuel 7	Fuel 8	Fuel 9	Fuel 10	Fuel 11	Fuel 12
Choose fuel type from drop down menu	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas
Input volume (scf for Natural gas, gallons for all others)												

DIESEL EQUIPMENT OPERATION (PER HOUR BASIS)	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose equipment type from drop down menu	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer
Choose equipment size for Dozer (HP)	65	65	65	65	65	65	65	65	65	65	65	65
Choose equipment size for Loader (HP)	65	65	65	65	65	65	65	65	65	65	65	65
Choose equipment size for Excavator (HP)	150	150	150	150	150	150	150	150	150	150	150	150
Choose equipment size for Scraper (HP)	330	330	330	330	330	330	330	330	330	330	330	330
Choose equipment size for Crawler Crane	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1 C
Choose equipment size for Tillage Tractor (HP)	16	16	16	16	16	16	16	16	16	16	16	16
Choose equipment size for Paver (HP)	25	25	25	25	25	25	25	25	25	25	25	25
Choose equipment size for Roller (HP)	6	6	6	6	6	6	6	6	6	6	6	6
Choose equipment size for Trencher (HP range)	6 to 11	7 to 11	8 to 11	9 to 11	10 to 11	11 to 11	12 to 11	13 to 11	14 to 11	15 to 11	16 to 11	17 to 11
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating hours (hr)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

OPERATOR LABOR	Occupation 1	Occupation 2	Occupation 3	Occupation 4	Occupation 5	Occupation 6	Occupation 7	Occupation 8	Occupation 9	Occupation 10	Occupation 11	Occupation 12
Choose occupation from drop-down menu	Operating engineers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers
Input total time worked onsite (hours)	4.0											

LABORATORY ANALYSIS	Analysis 1	Analysis 2	Analysis 3	Analysis 4	Analysis 5	Analysis 6	Analysis 7	Analysis 8	Analysis 9	Analysis 10	Analysis 11	Analysis 12
Input dollars spent on laboratory analysis ($)												

OTHER KNOWN ONSITE ACTIVITIES	Entire Site
Input energy usage (MMBTU)	
Water consumption (gallon)	
Input CO2 emission (metric ton)	
Input N2O emission (metric ton CO2 e)	
Input CH4 emission (metric ton CO2 e)	
Input NOx emission (metric ton)	
Input SOx emission (metric ton)	
Input PM10 emission (metric ton)	
Input fatality risk	
Input injury risk	

RESIDUAL HANDLING

RESIDUE DISPOSAL/RECYCLING	Soil Residue	Residual Water	Material Residue	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Input weight of the waste transported to landfill or recycling per trip (tons)												
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input total number of trips												
Input number of miles per trip												

LANDFILL OPERATIONS	Operation 1	Operation 2	Operation 3	Operation 4	Operation 5	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6
Choose landfill type for waste disposal	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous
Input amount of waste disposed in landfill (tons)												
Input landfill methane emissions (metric tons CH4)												
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

THERMAL/CATALYTIC OXIDIZERS*	Oxidizer 1	Oxidizer 2	Oxidizer 3	Oxidizer 4	Oxidizer 5	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6
Choose oxidizer type from drop down menu	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer
Choose fuel type from drop down menu	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas
Input waste gas flow rate (scfm)												
Input time running (hours)												
Input waste gas inlet temperature (F)												
Input contaminant concentration (ppmV)												

*(Electric blowers are included in the analysis)

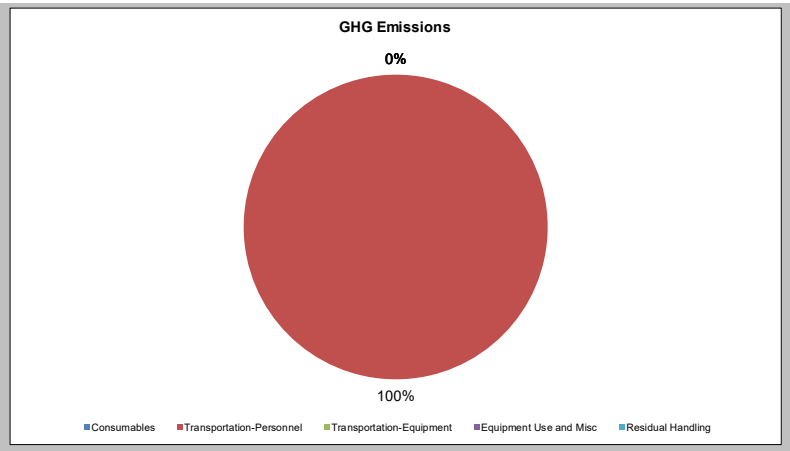
RESOURCE CONSUMPTION

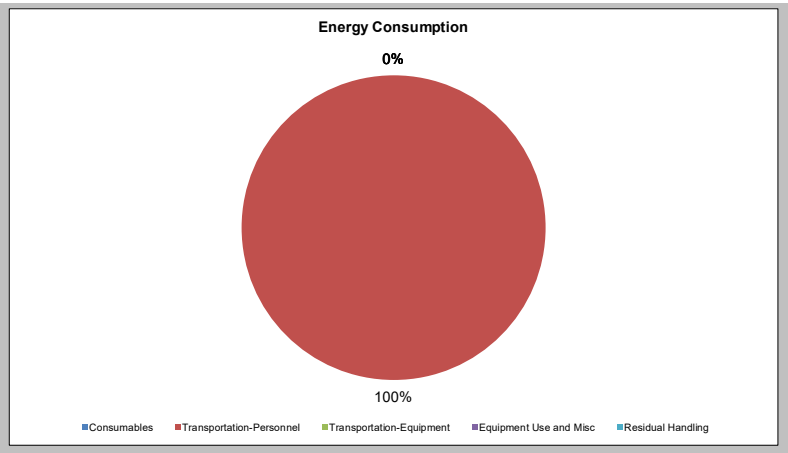
WATER CONSUMPTION	Treatment System 1	Treatment System 2	Treatment System 3	Treatment System 4	Treatment System 5	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6
Input total water consumed from potable water treatment facility (gal)												
Input total water disposed to wastewater treatment facility (gal)												

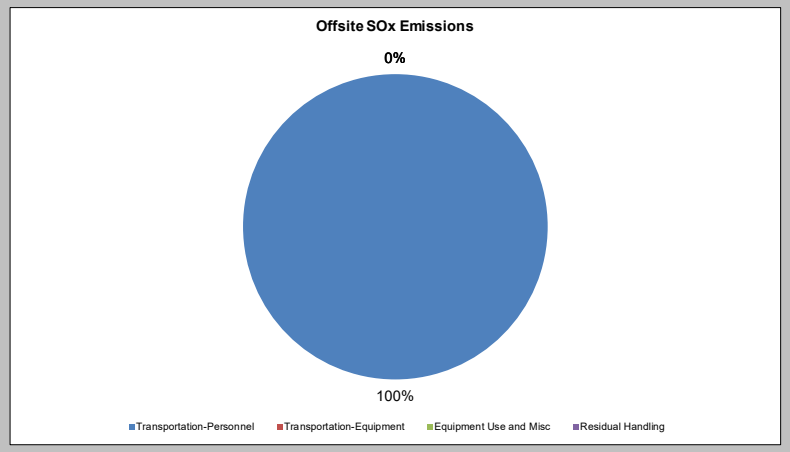
ONSITE LAND AND WATER RESOURCE CONSUMPTION	Entire Site 1	Entire Site 2	Entire Site 3	Entire Site 4	Entire Site 5	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6
Input volume of topsoil brought to site (cubic yards)												
Input volume of groundwater or surface water lost (gal)												

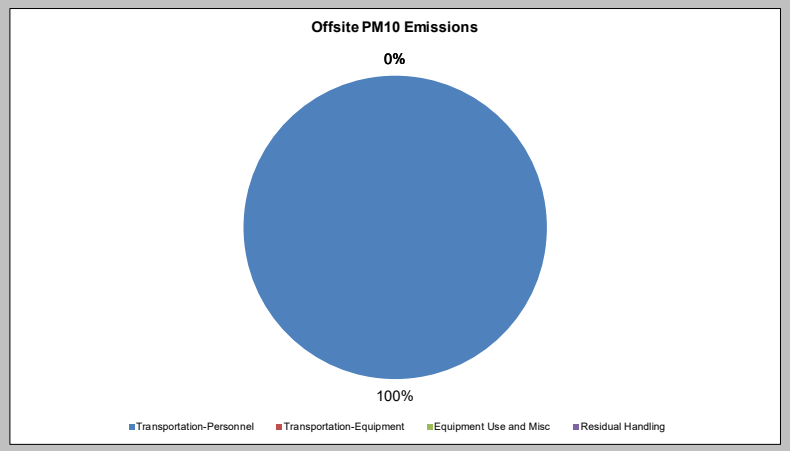
Sustainable Remediation Summary - Site Preparation and GPR Survey

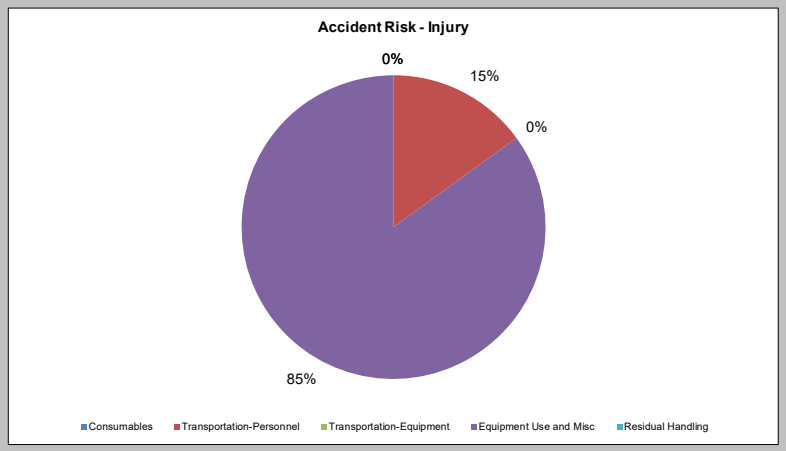
Activities	GHG Emissions	Percent Total	Total Energy Used	Percent Total	Water Consumption	Percent Total	Electricity Usage	Percent Total	Onsite NOx Emissions	Percent Total	Onsite SOx Emissions	Percent Total	Onsite PM10 Emissions	Percent Total	Total NOx Emissions	Percent Total	Total SOx Emissions	Percent Total	Total PM10 Emissions	Percent Total	Accident Risk Fatality	Percent Total	Accident Risk Injury	Percent Total
	metric ton	%	MMBTU	%	gallons	%	MWH	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%		%		%
Consumables	0.00	-	0.0E+00	-	NA	NA	NA	NA	NA	-	NA	-	NA	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	NA	NA	NA	NA
Transportation-Personnel	0.01	100.0	1.5E-01	100.0	NA	NA	NA	NA	NA	-	NA	-	NA	-	3.7E-06	100.0	4.0E-06	100.0	7.3E-07	100.0	2.0E-07	47.8	1.6E-05	15.0
Transportation-Equipment	0.00	-	0.0E+00	-	NA	NA	NA	NA	NA	-	NA	-	NA	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-
Equipment Use and Misc	0.00	-	0.0E+00	-	0.0E+00	0.0	0.0E+00	0.0	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	2.1E-07	52.2	9.2E-05	85.0
Residual Handling	0.00	-	0.0E+00	-	NA	NA	NA	NA	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-
Total	0.01	100.0	1.50E-01	100.0	0.00E+00	0.0	0.00E+00	0.0	0.00E+00	0.0	0.00E+00	0.0	0.00E+00	0.0	3.66E-06	100.0	4.00E-06	100.0	7.27E-07	100.0	4.10E-07	100.0	1.08E-04	100.0

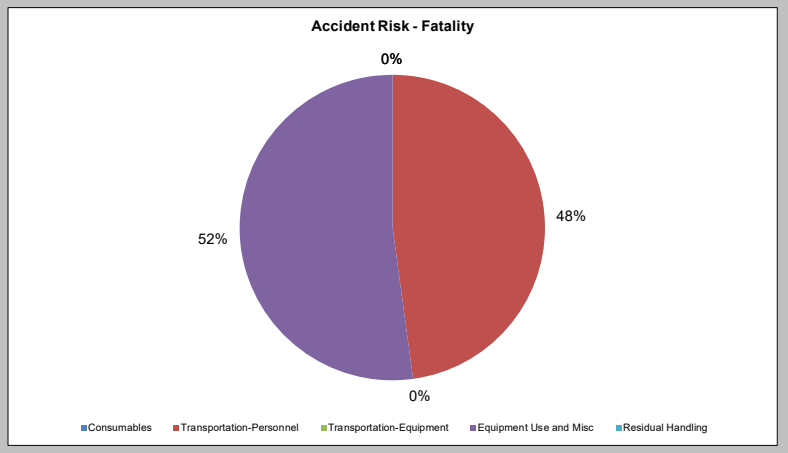

GHG Emissions
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Energy Consumption
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Offsite SOx Emissions
0%
100%
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Offsite PM10 Emissions
0%
100%
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Accident Risk - Injury
0%
15%
0%
85%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Accident Risk - Fatality
0%
48%
52%
0%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

This worksheet allows the user to define material production, transportation, equipment use, and residual handling variables for the remedial alternative
Yellow cells require the user to choose an input from a drop down menu
White cells require the user to type in a value

BASELINE INFORMATION

COMPONENT 2 DURATION AND COST	Entire Site
Input duration of the component (unit time)	1
Input component cost per unit time ($)	

MATERIAL PRODUCTION

WELL MATERIALS	Well Type 1	Well Type 2	Well Type 3	Well Type 4	Well Type 5	Well Type 6	Well Type 7	Well Type 8	Well Type 9	Well Type 10	Well Type 11	Well Type 12
Input number of wells	6	6										
Input depth of wells (ft)	20	5										
Choose specific casing material schedule from drop down menu	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC
Choose well diameter (in) from drop down menu	2	3/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
Input total quantity of Sand (kg)	15.0	2.5										
Input total quantity of Gravel (kg)												
Input total quantity of Bentonite (kg)	1.0	1.5										
Input total quantity of Typical Cement (kg)												
Input total quantity of General Concrete (kg)	2.0											
Input total quantity of Steel (kg)												

TREATMENT CHEMICALS & MATERIALS	Treatment 1	Treatment 2	Treatment 3	Treatment 4	Treatment 5	Treatment 6	Treatment 7	Treatment 8	Treatment 9	Treatment 10	Treatment 11	Treatment 12
Input number of injection points												
Choose material type from drop down menu	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide
Input amount of material injected at each point (pounds dry mass)												
Input number of injections per injection point												

TREATMENT MEDIA	Treatment 1	Treatment 2	Treatment 3	Treatment 4	Treatment 5	Treatment 6	Treatment 7	Treatment 8	Treatment 9	Treatment 10	Treatment 11	Treatment 12
Input weight of media used (lbs)												
Choose media type from drop down menu	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC

CONSTRUCTION MATERIALS	Material 1	Material 2	Material 3	Material 4	Material 5	Material 6	Material 7	Material 8	Material 9	Material 10	Material 11	Material 12
Choose material type from drop down menu	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner
Input area of material (ft2)												
Input depth of material (ft)												

WELL DECOMMISSIONING	Well Type 1	Well Type 2	Well Type 3	Well Type 4	Well Type 5	Well Type 6	Well Type 7	Well Type 8	Well Type 9	Well Type 10	Well Type 11	Well Type 12
Input number of wells												
Input depth of wells (ft)												
Input well diameter (in)												
Choose material from drop down menu	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

SILT CURTAIN MATERIALS	Curtain 1	Curtain 2	Curtain 3	Curtain 4	Curtain 5	Curtain 6	Curtain 7	Curtain 8	Curtain 9	Curtain 10	Curtain 11	Curtain 12
Input length or perimeter of silt curtain (ft)												
Input depth of silt curtain (ft)												

BULK MATERIAL QUANTITIES	Material 1	Material 2	Material 3	Material 4	Material 5	Material 6	Material 7	Material 8	Material 9	Material 10	Material 11	Material 12
Choose material from drop down menu	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid
Choose units of material quantity from drop down menu	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds
Input material quantity												

TRANSPORTATION

PERSONNEL TRANSPORTATION - ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Choose vehicle type from drop down menu*	Light truck	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input distance traveled per trip (miles)	46.1											
Input number of trips taken	10											
Input number of travelers	2											
Input estimated vehicular fuel economy (mi/gal) (Input only if known for the vehicle selected, otherwise a default will be used by the tool)												
*For vehicle type 'Other' please enter values in Table 2b in the Look Up Table tab.												

PERSONNEL TRANSPORTATION - AIR	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input number of travelers												
Input number of flights taken												

PERSONNEL TRANSPORTATION - RAIL	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Choose vehicle type from drop down menu	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail
Input distance traveled (miles)	11.4											
Input number of trips taken	10											
Input number of travelers	1											

EQUIPMENT TRANSPORTATION - DEDICATED LOAD ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Account for an empty return trip?	No	No	No	No	No	No	No	No	No	No	No	No
Input one-way distance traveled (miles) with a given load. If applicable, impact for an empty return trip will be accounted for (no additional input is needed).												
Input weight of equipment transported per truck load (tons)												

EQUIPMENT TRANSPORTATION - SHARED LOAD ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)	66											
Input weight of equipment transported (tons)	0.1											

EQUIPMENT TRANSPORTATION - AIR	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of equipment transported (tons)												

EQUIPMENT TRANSPORTATION - RAIL	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of load (tons)												

EQUIPMENT TRANSPORTATION - WATER	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (mile)												
Input weight of load (tons)												

EQUIPMENT USE

EARTHWORK	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose earthwork equipment type from drop down menu	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be removed (yd3)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

DRILLING	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Event 12
Input number of drilling locations	15	6										
Choose drilling method from drop down menu	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push
Input time spent drilling at each location (hr)	1.50	0.25										
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel

TRENCHING	Trencher 1	Trencher 2	Trencher 3	Trencher 4	Trencher 5	Trencher 6	Trencher 7	Trencher 8	Trencher 9	Trencher 10	Trencher 11	Trencher 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
Input operating hours (hr)												

SEDIMENT DREDGING	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose dredge equipment type from drop down menu	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Choose dredge fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be dredged (yd3)												
Choose dredge equipment size	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1 C
Suggested dredge equipment size	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1
Input number of dredge tenders (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Choose dredge tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for dredge tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of scow tenders (default already present, user override possible)	2	2	2	2	2	2	2	2	2	2	2	2
Choose scow tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for scow tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of research vessels (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Input operating time for research vessels (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

SEDIMENT MANAGEMENT (STAGING AND DRYING)	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose earthwork equipment type from drop down menu	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be removed (yd3)												
Is volume input that of saturated sediment?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Will the sediment be dry when this work is performed?	No	No	No	No	No	No	No	No	No	No	No	No
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

SEDIMENT CAPPING	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose capping method from drop down menu	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release
Choose capping equipment fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of capping material to be placed (yd3)												
Choose capping equipment size/type	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge
Suggested capping equipment size/type	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge
Input number of dredge tenders (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Choose tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for dredge tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of scow tenders (default already present, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose scow tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for scow tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of research vessels (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Input operating time for research vessels (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

WATERCRAFT OPERATION	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of vessels												
Input operating time (hours)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

For each pump, select only one of the three methods to calculate energy and GHG emissions
Enter "0" for all user input values for unused pump columns or unused methods

PUMP OPERATION	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Pump 9	Pump 10	Pump 11	Pump 12
Choose method from drop down	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1
Method 1 - ELECTRICAL USAGE IS KNOWN												
Input pump electrical usage (KWh)	0	0	0	0	0	0	0	0	0	0	0	0
Method 2 - PUMP HEAD IS KNOWN												
Input flow rate (gpm)	0	0	0	0	0	0	0	0	0	0	0	0
Input total head (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of pumps operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each pump (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Pump efficiency (default already present, user override possible)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Pump motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Input specific gravity (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Method 3 - NAME PLATE SPECIFICATIONS ARE KNOWN												
Input pump horsepower (hp)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of pumps operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each pump (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Percent of max speed for pump motor (Optional input for variable speed motor)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Pump load if max motor speed draws full nameplate horsepower	1	1	1	1	1	1	1	1	1	1	1	1
Input pump load (default already present, user override possible, consider above value)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Pump motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

DIESEL AND GASOLINE PUMPS	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Pump 9	Pump 10	Pump 11	Pump 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1
Equipment operating hours (hrs)												
Input estimated fuel consumption rate (gal/hr) (Input only if known for the pump selected, otherwise a default will be used by the tool)												

For each type of equipment, select only one of the methods to calculate energy and GHG emissions
Enter "0" for all user input values for unused equipment columns or unused methods

BLOWER, COMPRESSOR, MIXER, AND OTHER EQUIPMENT	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose type of equipment from drop down	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower
Choose method from drop down	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1
Method 1 - NAME PLATE SPECIFICATIONS ARE KNOWN												
Input equipment horsepower (hp)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of equipments operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each equipment (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Percent of max speed for motor (Optional input for variable speed motor)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Equipment load if max motor speed draws full nameplate horsepower	1	1	1	1	1	1	1	1	1	1	1	1
Input equipment load (default already present, user override possible, consider above value)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Equipment motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Method 2 - ELECTRICAL USAGE IS KNOWN												
Input equipment electrical usage, if known (kWh)	0	0	0	0	0	0	0	0	0	0	0	0
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

GENERATORS	Generator 1	Generator 2	Generator 3	Generator 4	Generator 5	Generator 6	Generator 7	Generator 8	Generator 9	Generator 10	Generator 11	Generator 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Input operating hours (hr)												

AGRICULTURAL EQUIPMENT	Tillage Tractor 1	Tillage Tractor 2	Tillage Tractor 3	Tillage Tractor 4	Tillage Tractor 5	Tillage Tractor 6	Tillage Tractor 7	Tillage Tractor 8	Tillage Tractor 9	Tillage Tractor 10	Tillage Tractor 11	Tillage Tractor 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input area to till (acre)												
Choose soil condition from drop down menu	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil
Choose soil type from drop down menu	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil
Input time available (work days)												
Input depth of tillage (in)												

CAPPING EQUIPMENT	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose stabilization equipment type from drop down menu	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input area (ft2)												
Input time available (work days)												

MIXING EQUIPMENT	Mixer 1	Mixer 2	Mixer 3	Mixer 4	Mixer 5	Mixer 6	Mixer 7	Mixer 8	Mixer 9	Mixer 10	Mixer 11	Mixer 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
Input volume (yd3)												
Input production rate (yd3/hr)												
Input estimated fuel consumption rate (gal/hr) (Input only if known for the mixer selected, otherwise a default will be used by the tool)												

INTERNAL COMBUSTION ENGINES	Engine 1	Engine 2	Engine 3	Engine 4	Engine 5	Engine 6	Engine 7	Engine 8	Engine 9	Engine 10	Engine 11	Engine 12
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input fuel consumption rate (gal/hr or scf/hr)												
Input operating hours (hr)												

OTHER FUELED EQUIPMENT	Fuel 1	Fuel 2	Fuel 3	Fuel 4	Fuel 5	Fuel 6	Fuel 7	Fuel 8	Fuel 9	Fuel 10	Fuel 11	Fuel 12
Choose fuel type from drop down menu	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas
Input volume (scf for Natural gas, gallons for all others)												

DIESEL EQUIPMENT OPERATION (PER HOUR BASIS)	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose equipment type from drop down menu	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer
Choose equipment size for Dozer (HP)	65	65	65	65	65	65	65	65	65	65	65	65
Choose equipment size for Loader (HP)	65	65	65	65	65	65	65	65	65	65	65	65
Choose equipment size for Excavator (HP)	150	150	150	150	150	150	150	150	150	150	150	150
Choose equipment size for Scraper (HP)	330	330	330	330	330	330	330	330	330	330	330	330
Choose equipment size for Crawler Crane	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1 C
Choose equipment size for Tillage Tractor (HP)	16	16	16	16	16	16	16	16	16	16	16	16
Choose equipment size for Paver (HP)	25	25	25	25	25	25	25	25	25	25	25	25
Choose equipment size for Roller (HP)	6	6	6	6	6	6	6	6	6	6	6	6
Choose equipment size for Trencher (HP range)	6 to 11	7 to 11	8 to 11	9 to 11	10 to 11	11 to 11	12 to 11	13 to 11	14 to 11	15 to 11	16 to 11	17 to 11
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating hours (hr)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

OPERATOR LABOR	Occupation 1	Occupation 2	Occupation 3	Occupation 4	Occupation 5	Occupation 6	Occupation 7	Occupation 8	Occupation 9	Occupation 10	Occupation 11	Occupation 12
Choose occupation from drop-down menu	Construction laborers	ntific and technical ser	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers
Input total time worked onsite (hours)	50.0	80.0										

LABORATORY ANALYSIS	Analysis 1	Analysis 2	Analysis 3	Analysis 4	Analysis 5	Analysis 6	Analysis 7	Analysis 8	Analysis 9	Analysis 10	Analysis 11	Analysis 12
Input dollars spent on laboratory analysis ($)												

OTHER KNOWN ONSITE ACTIVITIES	Entire Site
Input energy usage (MMBTU)	1.1E-02
Water consumption (gallon)	
Input CO2 emission (metric ton)	
Input N2O emission (metric ton CO2 e)	
Input CH4 emission (metric ton CO2 e)	
Input NOx emission (metric ton)	
Input SOx emission (metric ton)	
Input PM10 emission (metric ton)	
Input fatality risk	
Input injury risk	

RESIDUAL HANDLING

RESIDUE DISPOSAL/RECYCLING	Soil Residue	Residual Water	Material Residue	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Input weight of the waste transported to landfill or recycling per trip (tons)	0.25	0.25										
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input total number of trips	1.0	1.0										
Input number of miles per trip	37.6	37.6										

LANDFILL OPERATIONS	Operation 1	Operation 2	Operation 3	Operation 4	Operation 5	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6
Choose landfill type for waste disposal	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous
Input amount of waste disposed in landfill (tons)												
Input landfill methane emissions (metric tons CH4)												
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

THERMAL/CATALYTIC OXIDIZERS*	Oxidizer 1	Oxidizer 2	Oxidizer 3	Oxidizer 4	Oxidizer 5	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6
Choose oxidizer type from drop down menu	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer
Choose fuel type from drop down menu	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas
Input waste gas flow rate (scfm)												
Input time running (hours)												
Input waste gas inlet temperature (F)												
Input contaminant concentration (ppmV)												

*(Electric blowers are included in the analysis)

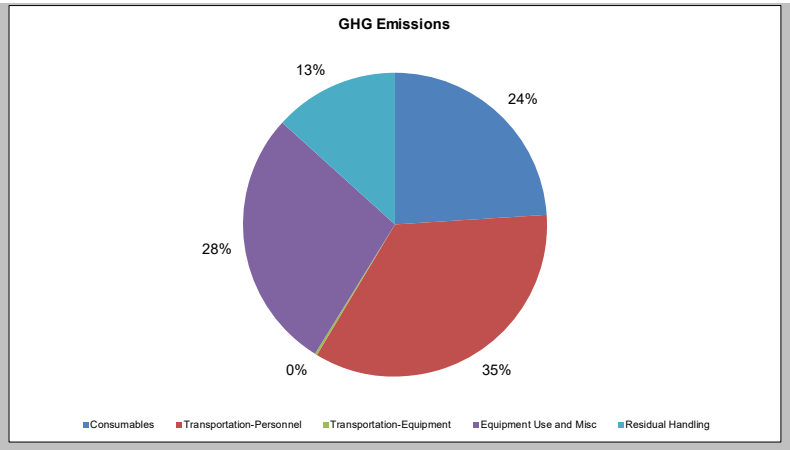
RESOURCE CONSUMPTION

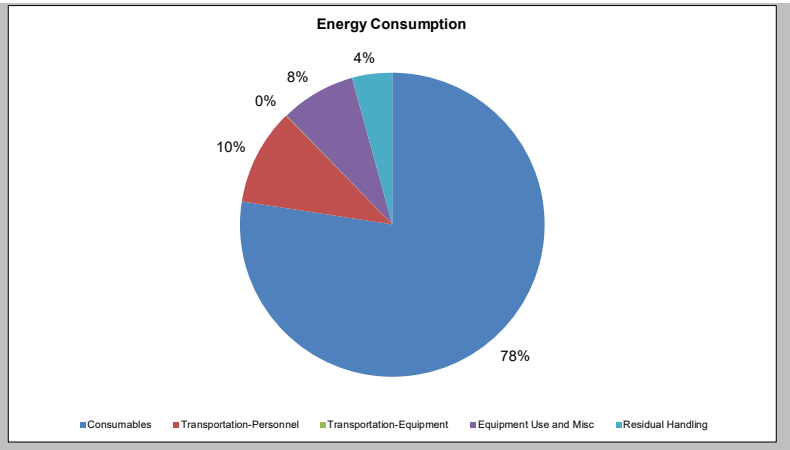
WATER CONSUMPTION	Treatment System 1	Treatment System 2	Treatment System 3	Treatment System 4	Treatment System 5	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6
Input total water consumed from potable water treatment facility (gal)	100											
Input total water disposed to wastewater treatment facility (gal)												

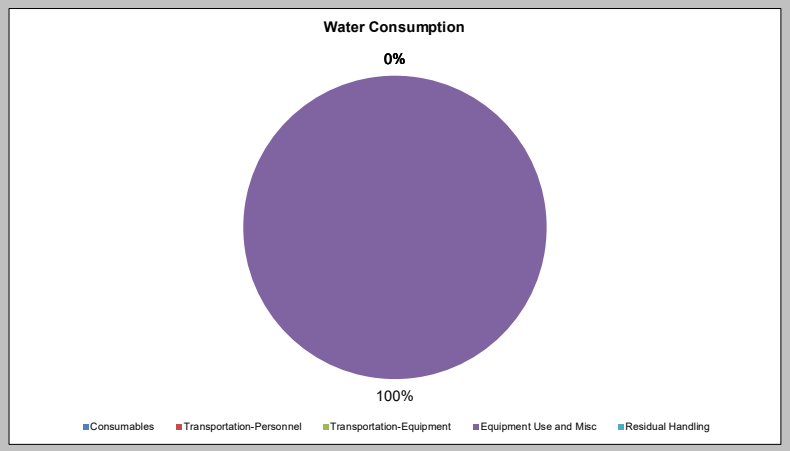
ONSITE LAND AND WATER RESOURCE CONSUMPTION	Entire Site 1	Entire Site 2	Entire Site 3	Entire Site 4	Entire Site 5	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6
Input volume of topsoil brought to site (cubic yards)												
Input volume of groundwater or surface water lost (gal)												

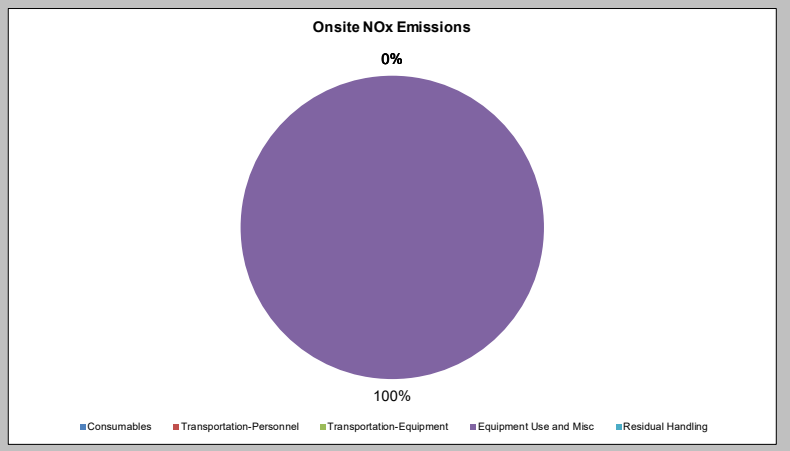
Sustainable Remediation Summary - Installation of Soil Borings, Groundwater Monitoring Wells, and Soil Vapor Point

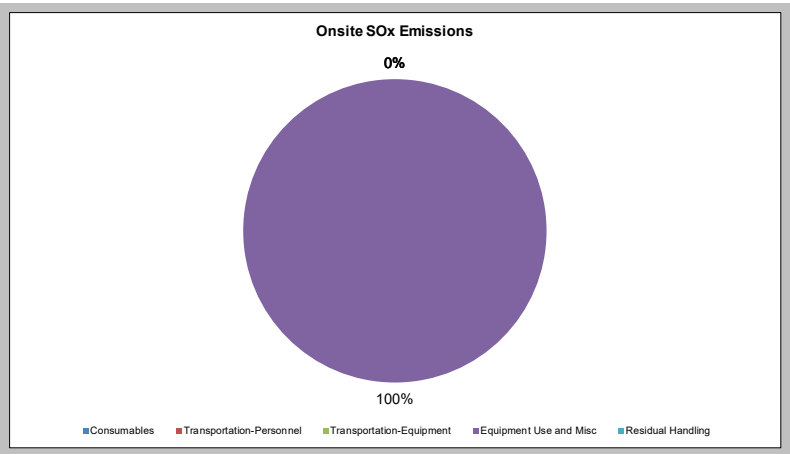
Activities	GHG Emissions	Percent Total	Total Energy Used	Percent Total	Water Consumption	Percent Total	Electricity Usage	Percent Total	Onsite NOx Emissions	Percent Total	Onsite SOx Emissions	Percent Total	Onsite PM10 Emissions	Percent Total	Total NOx Emissions	Percent Total	Total SOx Emissions	Percent Total	Total PM10 Emissions	Percent Total	Accident Risk Fatality	Percent Total	Accident Risk Injury	Percent Total
	metric ton	%	MMBTU	%	gallons	%	MWH	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%		%		%
Consumables	0.19	24.0	2.6E+01	77.4	NA	NA	NA	NA	NA	-	NA	-	NA	-	3.5E-04	12.9	5.3E-04	64.1	7.4E-05	24.9	NA	NA	NA	NA
Transportation-Personnel	0.27	34.6	3.4E+00	10.2	NA	NA	NA	NA	NA	-	NA	-	NA	-	1.1E-04	4.0	2.3E-05	2.7	1.5E-05	5.2	7.2E-06	46.8	5.8E-04	20.8
Transportation-Equipment	0.00	0.2	2.1E-02	0.1	NA	NA	NA	NA	NA	-	NA	-	NA	-	5.1E-07	0.0	9.0E-09	0.0	4.5E-08	0.0	5.2E-07	3.3	4.2E-05	1.5
Equipment Use and Misc	0.22	27.9	2.6E+00	7.9	1.0E+02	100.0	0.0E+00	0.0	2.1E-03	100.0	2.1E-04	100.0	1.9E-04	100.0	2.2E-03	81.8	2.7E-04	33.0	2.0E-04	69.0	7.1E-06	46.1	2.1E-03	76.1
Residual Handling	0.10	13.3	1.4E+00	4.3	NA	NA	NA	NA	0.0E+00	-	0.0E+00	-	0.0E+00	-	3.3E-05	1.2	1.4E-06	0.2	2.7E-06	0.9	5.9E-07	3.8	4.7E-05	1.7
Total	0.78	100.0	3.30E+01	100.0	1.00E+02	100.0	0.00E+00	0.0	2.06E-03	100.0	2.11E-04	100.0	1.86E-04	100.0	2.67E-03	100.0	8.27E-04	100.0	2.96E-04	100.0	1.55E-05	100.0	2.82E-03	100.0

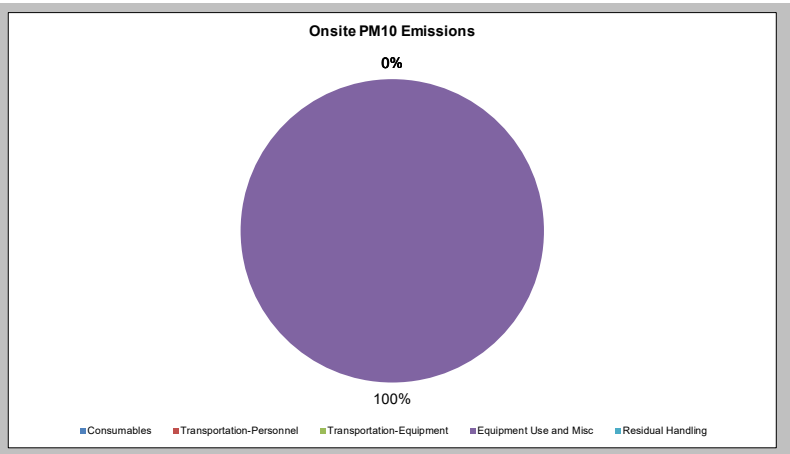

GHG Emissions
13%
24%
28%
0%
35%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

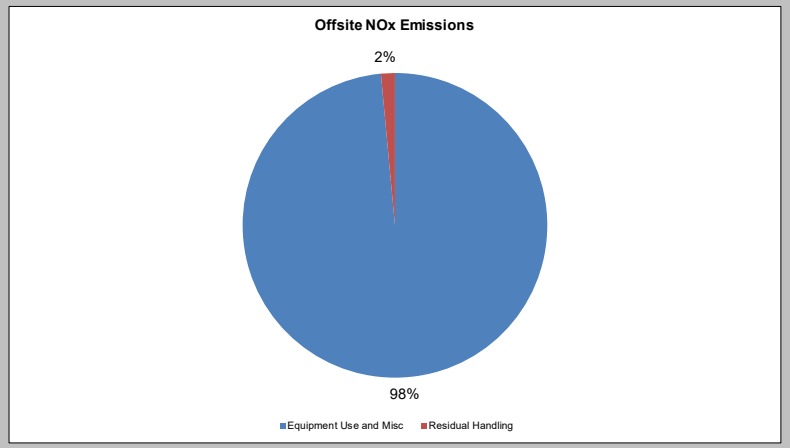

Energy Consumption
4%
8%
0%
10%
78%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

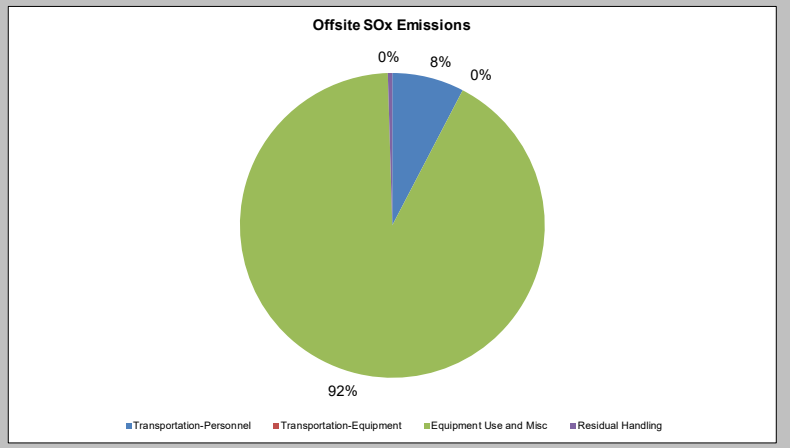

Water Consumption
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

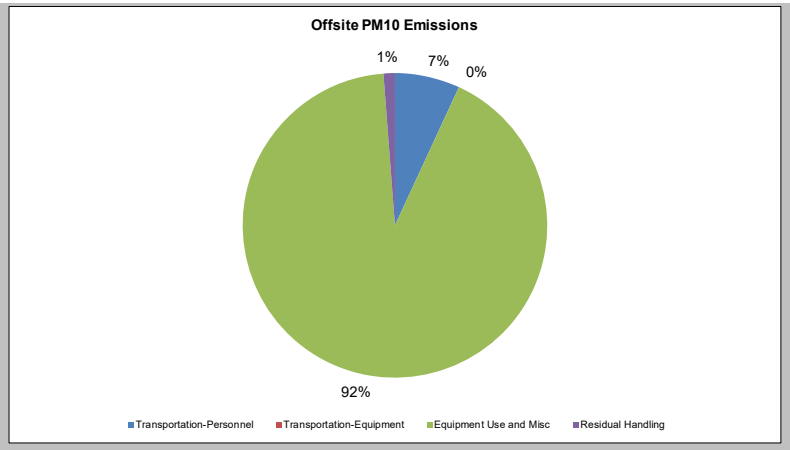

Onsite NOx Emissions
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

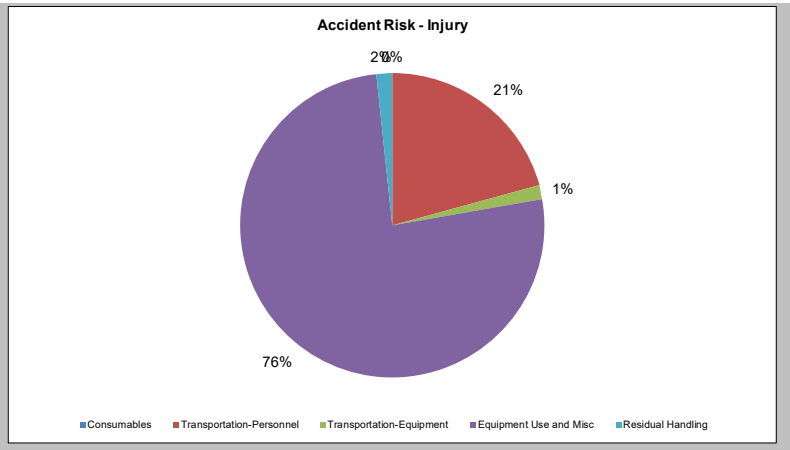

Onsite SOx Emissions
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

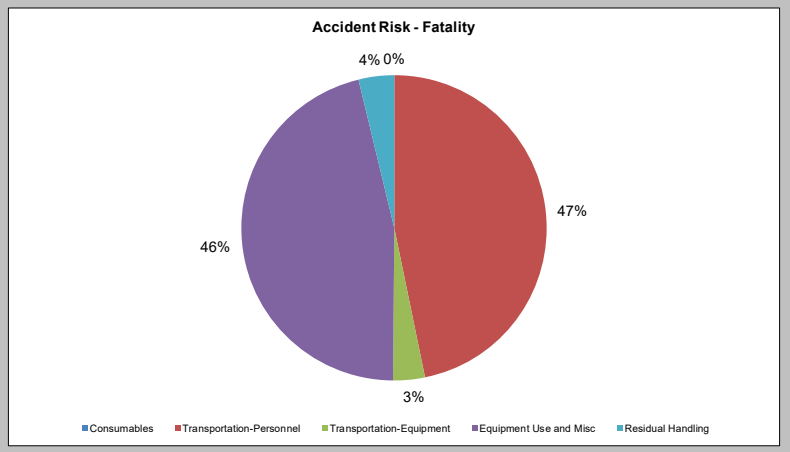

Onsite PM10 Emissions
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Offsite NOx Emissions
2%
98%
Equipment Use and Misc
Residual Handling


Offsite SOx Emissions
0%
8%
0%
92%
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Offsite PM10 Emissions
1%
7%
0%
92%
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Accident Risk - Injury
21%
1%
76%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Accident Risk - Fatality
4%
0%
47%
46%
3%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

This worksheet allows the user to define material production, transportation, equipment use, and residual handling variables for the remedial alternative
Yellow cells require the user to choose an input from a drop down menu
White cells require the user to type in a value

BASELINE INFORMATION

COMPONENT 3 DURATION AND COST	Entire Site
Input duration of the component (unit time)	1
Input component cost per unit time ($)	

MATERIAL PRODUCTION

WELL MATERIALS	Well Type 1	Well Type 2	Well Type 3	Well Type 4	Well Type 5	Well Type 6	Well Type 7	Well Type 8	Well Type 9	Well Type 10	Well Type 11	Well Type 12
Input number of wells												
Input depth of wells (ft)												
Choose specific casing material schedule from drop down menu	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC
Choose well diameter (in) from drop down menu	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
Input total quantity of Sand (kg)												
Input total quantity of Gravel (kg)												
Input total quantity of Bentonite (kg)												
Input total quantity of Typical Cement (kg)												
Input total quantity of General Concrete (kg)												
Input total quantity of Steel (kg)												

TREATMENT CHEMICALS & MATERIALS	Treatment 1	Treatment 2	Treatment 3	Treatment 4	Treatment 5	Treatment 6	Treatment 7	Treatment 8	Treatment 9	Treatment 10	Treatment 11	Treatment 12
Input number of injection points												
Choose material type from drop down menu	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide
Input amount of material injected at each point (pounds dry mass)												
Input number of injections per injection point												

TREATMENT MEDIA	Treatment 1	Treatment 2	Treatment 3	Treatment 4	Treatment 5	Treatment 6	Treatment 7	Treatment 8	Treatment 9	Treatment 10	Treatment 11	Treatment 12
Input weight of media used (lbs)												
Choose media type from drop down menu	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC

CONSTRUCTION MATERIALS	Material 1	Material 2	Material 3	Material 4	Material 5	Material 6	Material 7	Material 8	Material 9	Material 10	Material 11	Material 12
Choose material type from drop down menu	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner
Input area of material (ft2)												
Input depth of material (ft)												

WELL DECOMMISSIONING	Well Type 1	Well Type 2	Well Type 3	Well Type 4	Well Type 5	Well Type 6	Well Type 7	Well Type 8	Well Type 9	Well Type 10	Well Type 11	Well Type 12
Input number of wells												
Input depth of wells (ft)												
Input well diameter (in)												
Choose material from drop down menu	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

SILT CURTAIN MATERIALS	Curtain 1	Curtain 2	Curtain 3	Curtain 4	Curtain 5	Curtain 6	Curtain 7	Curtain 8	Curtain 9	Curtain 10	Curtain 11	Curtain 12
Input length or perimeter of silt curtain (ft)												
Input depth of silt curtain (ft)												

BULK MATERIAL QUANTITIES	Material 1	Material 2	Material 3	Material 4	Material 5	Material 6	Material 7	Material 8	Material 9	Material 10	Material 11	Material 12
Choose material from drop down menu	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid
Choose units of material quantity from drop down menu	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds
Input material quantity												

TRANSPORTATION

PERSONNEL TRANSPORTATION - ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Choose vehicle type from drop down menu*	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input distance traveled per trip (miles)	30.0											
Input number of trips taken	16											
Input number of travelers	1											
Input estimated vehicular fuel economy (mi/gal) (Input only if known for the vehicle selected, otherwise a default will be used by the tool)												
*For vehicle type 'Other' please enter values in Table 2b in the Look Up Table tab.												

PERSONNEL TRANSPORTATION - AIR	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input number of travelers												
Input number of flights taken												

PERSONNEL TRANSPORTATION - RAIL	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Choose vehicle type from drop down menu	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail
Input distance traveled (miles)												
Input number of trips taken												
Input number of travelers												

EQUIPMENT TRANSPORTATION - DEDICATED LOAD ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Account for an empty return trip?	No	No	No	No	No	No	No	No	No	No	No	No
Input one-way distance traveled (miles) with a given load. If applicable, impact for an empty return trip will be accounted for (no additional input is needed).												
Input weight of equipment transported per truck load (tons)												

EQUIPMENT TRANSPORTATION - SHARED LOAD ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of equipment transported (tons)												

EQUIPMENT TRANSPORTATION - AIR	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of equipment transported (tons)												

EQUIPMENT TRANSPORTATION - RAIL	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of load (tons)												

EQUIPMENT TRANSPORTATION - WATER	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (mile)												
Input weight of load (tons)												

EQUIPMENT USE

EARTHWORK	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose earthwork equipment type from drop down menu	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be removed (yd3)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

DRILLING	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Event 12
Input number of drilling locations												
Choose drilling method from drop down menu	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push
Input time spent drilling at each location (hr)												
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel

TRENCHING	Trencher 1	Trencher 2	Trencher 3	Trencher 4	Trencher 5	Trencher 6	Trencher 7	Trencher 8	Trencher 9	Trencher 10	Trencher 11	Trencher 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
Input operating hours (hr)												

SEDIMENT DREDGING	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose dredge equipment type from drop down menu	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Choose dredge fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be dredged (yd3)												
Choose dredge equipment size	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1 C
Suggested dredge equipment size	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1
Input number of dredge tenders (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Choose dredge tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for dredge tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of scow tenders (default already present, user override possible)	2	2	2	2	2	2	2	2	2	2	2	2
Choose scow tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for scow tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of research vessels (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Input operating time for research vessels (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

SEDIMENT MANAGEMENT (STAGING AND DRYING)	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose earthwork equipment type from drop down menu	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be removed (yd3)												
Is volume input that of saturated sediment?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Will the sediment be dry when this work is performed?	No	No	No	No	No	No	No	No	No	No	No	No
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

SEDIMENT CAPPING	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose capping method from drop down menu	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release
Choose capping equipment fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of capping material to be placed (yd3)												
Choose capping equipment size/type	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge
Suggested capping equipment size/type	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge
Input number of dredge tenders (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Choose tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for dredge tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of scow tenders (default already present, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose scow tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for scow tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of research vessels (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Input operating time for research vessels (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

WATERCRAFT OPERATION	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of vessels												
Input operating time (hours)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

For each pump, select only one of the three methods to calculate energy and GHG emissions
Enter "0" for all user input values for unused pump columns or unused methods

PUMP OPERATION	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Pump 9	Pump 10	Pump 11	Pump 12
Choose method from drop down	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1
Method 1 - ELECTRICAL USAGE IS KNOWN												
Input pump electrical usage (KWh)	0	0	0	0	0	0	0	0	0	0	0	0
Method 2 - PUMP HEAD IS KNOWN												
Input flow rate (gpm)	0	0	0	0	0	0	0	0	0	0	0	0
Input total head (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of pumps operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each pump (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Pump efficiency (default already present, user override possible)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Pump motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Input specific gravity (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Method 3 - NAME PLATE SPECIFICATIONS ARE KNOWN												
Input pump horsepower (hp)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of pumps operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each pump (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Percent of max speed for pump motor (Optional input for variable speed motor)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Pump load if max motor speed draws full nameplate horsepower	1	1	1	1	1	1	1	1	1	1	1	1
Input pump load (default already present, user override possible, consider above value)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Pump motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

DIESEL AND GASOLINE PUMPS	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Pump 9	Pump 10	Pump 11	Pump 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1
Equipment operating hours (hrs)												
Input estimated fuel consumption rate (gal/hr) (Input only if known for the pump selected, otherwise a default will be used by the tool)												

For each type of equipment, select only one of the methods to calculate energy and GHG emissions
Enter "0" for all user input values for unused equipment columns or unused methods

BLOWER, COMPRESSOR, MIXER, AND OTHER EQUIPMENT	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose type of equipment from drop down	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower
Choose method from drop down	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1
Method 1 - NAME PLATE SPECIFICATIONS ARE KNOWN												
Input equipment horsepower (hp)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of equipments operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each equipment (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Percent of max speed for motor (Optional input for variable speed motor)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Equipment load if max motor speed draws full nameplate horsepower	1	1	1	1	1	1	1	1	1	1	1	1
Input equipment load (default already present, user override possible, consider above value)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Equipment motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Method 2 - ELECTRICAL USAGE IS KNOWN												
Input equipment electrical usage, if known (kWh)	0	0	0	0	0	0	0	0	0	0	0	0
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

GENERATORS	Generator 1	Generator 2	Generator 3	Generator 4	Generator 5	Generator 6	Generator 7	Generator 8	Generator 9	Generator 10	Generator 11	Generator 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Input operating hours (hr)												

AGRICULTURAL EQUIPMENT	Tillage Tractor 1	Tillage Tractor 2	Tillage Tractor 3	Tillage Tractor 4	Tillage Tractor 5	Tillage Tractor 6	Tillage Tractor 7	Tillage Tractor 8	Tillage Tractor 9	Tillage Tractor 10	Tillage Tractor 11	Tillage Tractor 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input area to till (acre)												
Choose soil condition from drop down menu	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil
Choose soil type from drop down menu	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil
Input time available (work days)												
Input depth of tillage (in)												

CAPPING EQUIPMENT	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose stabilization equipment type from drop down menu	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input area (ft2)												
Input time available (work days)												

MIXING EQUIPMENT	Mixer 1	Mixer 2	Mixer 3	Mixer 4	Mixer 5	Mixer 6	Mixer 7	Mixer 8	Mixer 9	Mixer 10	Mixer 11	Mixer 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
Input volume (yd3)												
Input production rate (yd3/hr)												
Input estimated fuel consumption rate (gal/hr) (Input only if known for the mixer selected, otherwise a default will be used by the tool)												

INTERNAL COMBUSTION ENGINES	Engine 1	Engine 2	Engine 3	Engine 4	Engine 5	Engine 6	Engine 7	Engine 8	Engine 9	Engine 10	Engine 11	Engine 12
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input fuel consumption rate (gal/hr or scf/hr)												
Input operating hours (hr)												

OTHER FUELED EQUIPMENT	Fuel 1	Fuel 2	Fuel 3	Fuel 4	Fuel 5	Fuel 6	Fuel 7	Fuel 8	Fuel 9	Fuel 10	Fuel 11	Fuel 12
Choose fuel type from drop down menu	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas
Input volume (scf for Natural gas, gallons for all others)												

DIESEL EQUIPMENT OPERATION (PER HOUR BASIS)	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose equipment type from drop down menu	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer
Choose equipment size for Dozer (HP)	65	65	65	65	65	65	65	65	65	65	65	65
Choose equipment size for Loader (HP)	65	65	65	65	65	65	65	65	65	65	65	65
Choose equipment size for Excavator (HP)	150	150	150	150	150	150	150	150	150	150	150	150
Choose equipment size for Scraper (HP)	330	330	330	330	330	330	330	330	330	330	330	330
Choose equipment size for Crawler Crane	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1 C
Choose equipment size for Tillage Tractor (HP)	16	16	16	16	16	16	16	16	16	16	16	16
Choose equipment size for Paver (HP)	25	25	25	25	25	25	25	25	25	25	25	25
Choose equipment size for Roller (HP)	6	6	6	6	6	6	6	6	6	6	6	6
Choose equipment size for Trencher (HP range)	6 to 11	7 to 11	8 to 11	9 to 11	10 to 11	11 to 11	12 to 11	13 to 11	14 to 11	15 to 11	16 to 11	17 to 11
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating hours (hr)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

OPERATOR LABOR	Occupation 1	Occupation 2	Occupation 3	Occupation 4	Occupation 5	Occupation 6	Occupation 7	Occupation 8	Occupation 9	Occupation 10	Occupation 11	Occupation 12
Choose occupation from drop-down menu	ientific and technical serv	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers
Input total time worked onsite (hours)	120.0											

LABORATORY ANALYSIS	Analysis 1	Analysis 2	Analysis 3	Analysis 4	Analysis 5	Analysis 6	Analysis 7	Analysis 8	Analysis 9	Analysis 10	Analysis 11	Analysis 12
Input dollars spent on laboratory analysis ($)	40,000.00	10,000.00	2,000.00									

OTHER KNOWN ONSITE ACTIVITIES	Entire Site
Input energy usage (MMBTU)	
Water consumption (gallon)	
Input CO2 emission (metric ton)	
Input N2O emission (metric ton CO2 e)	
Input CH4 emission (metric ton CO2 e)	
Input NOx emission (metric ton)	
Input SOx emission (metric ton)	
Input PM10 emission (metric ton)	
Input fatality risk	
Input injury risk	

RESIDUAL HANDLING

RESIDUE DISPOSAL/RECYCLING	Soil Residue	Residual Water	Material Residue	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Input weight of the waste transported to landfill or recycling per trip (tons)												
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input total number of trips												
Input number of miles per trip												

LANDFILL OPERATIONS	Operation 1	Operation 2	Operation 3	Operation 4	Operation 5	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6
Choose landfill type for waste disposal	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous
Input amount of waste disposed in landfill (tons)	0.02											
Input landfill methane emissions (metric tons CH4)												
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

THERMAL/CATALYTIC OXIDIZERS*	Oxidizer 1	Oxidizer 2	Oxidizer 3	Oxidizer 4	Oxidizer 5	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6
Choose oxidizer type from drop down menu	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer
Choose fuel type from drop down menu	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas
Input waste gas flow rate (scfm)												
Input time running (hours)												
Input waste gas inlet temperature (F)												
Input contaminant concentration (ppmV)												

*(Electric blowers are included in the analysis)

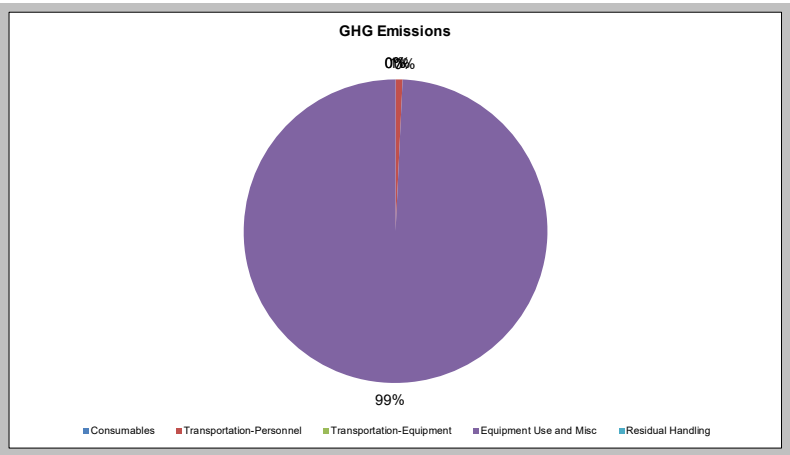
RESOURCE CONSUMPTION

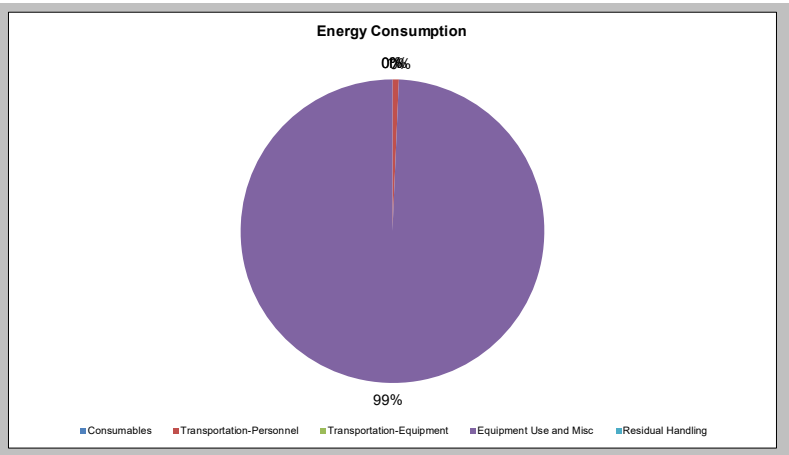
WATER CONSUMPTION	Treatment System 1	Treatment System 2	Treatment System 3	Treatment System 4	Treatment System 5	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6
Input total water consumed from potable water treatment facility (gal)												
Input total water disposed to wastewater treatment facility (gal)	30											

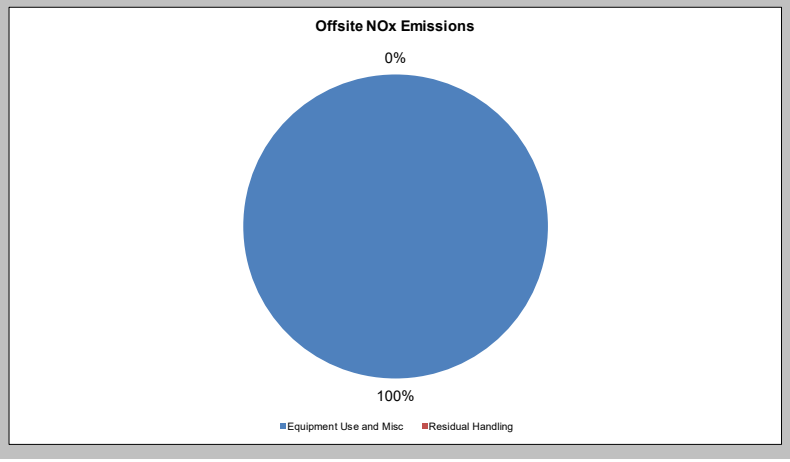
ONSITE LAND AND WATER RESOURCE CONSUMPTION	Entire Site 1	Entire Site 2	Entire Site 3	Entire Site 4	Entire Site 5	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6
Input volume of topsoil brought to site (cubic yards)												
Input volume of groundwater or surface water lost (gal)												

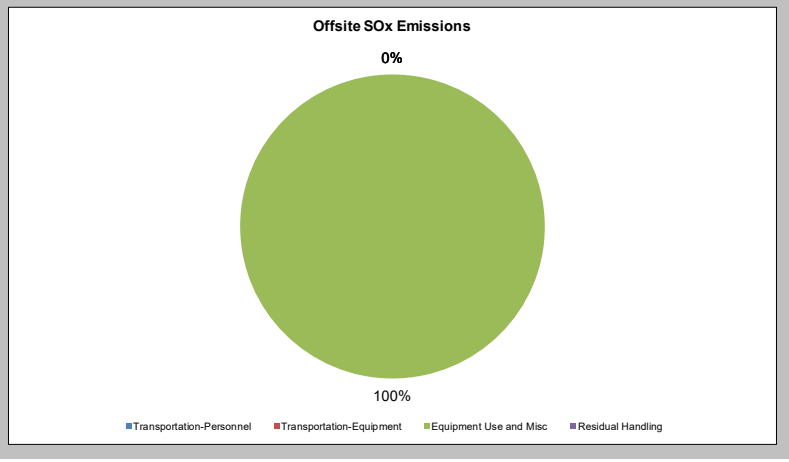
Sustainable Remediation Summary - Soil, Groundwater, and Soil Vapor Sampling

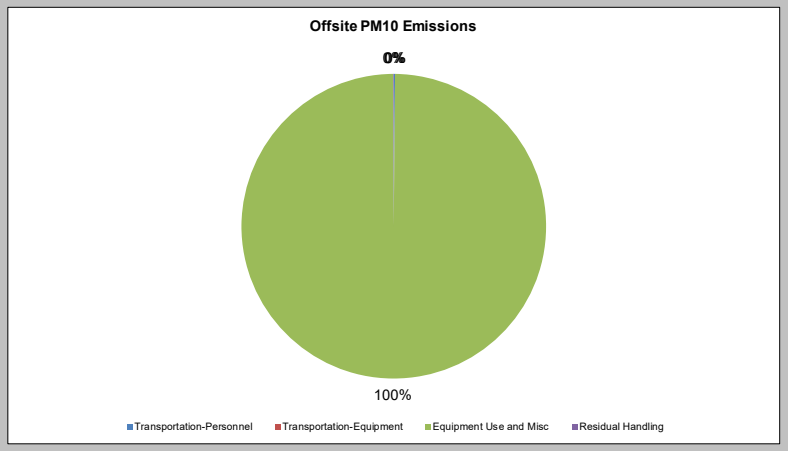
Activities	GHG Emissions	Percent Total	Total Energy Used	Percent Total	Water Consumption	Percent Total	Electricity Usage	Percent Total	Onsite NOx Emissions	Percent Total	Onsite SOx Emissions	Percent Total	Onsite PM10 Emissions	Percent Total	Total NOx Emissions	Percent Total	Total SOx Emissions	Percent Total	Total PM10 Emissions	Percent Total	Accident Risk Fatality	Percent Total	Accident Risk Injury	Percent Total
	metric ton	%	MMBTU	%	gallons	%	MWH	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%		%		%
Consumables	0.00	-	0.0E+00	-	NA	NA	NA	NA	NA	-	NA	-	NA	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	NA	NA	NA	NA
Transportation-Personnel	0.18	0.8	2.3E+00	0.7	NA	NA	NA	NA	NA	-	NA	-	NA	-	6.8E-05	0.1	2.4E-06	0.0	1.4E-05	0.1	3.7E-06	87.4	3.0E-04	31.3
Transportation-Equipment	0.00	-	0.0E+00	-	NA	NA	NA	NA	NA	-	NA	-	NA	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-
Equipment Use and Misc	23.59	99.2	3.4E+02	99.3	0.0E+00	0.0	0.0E+00	0.0	0.0E+00	-	0.0E+00	-	0.0E+00	-	1.1E-01	99.9	8.5E-02	100.0	9.4E-03	99.8	5.4E-07	12.6	6.6E-04	68.7
Residual Handling	0.00	0.0	4.3E-03	0.0	NA	NA	NA	NA	0.0E+00	-	0.0E+00	-	0.0E+00	-	1.3E-06	0.0	6.8E-07	0.0	3.6E-06	0.0	0.0E+00	-	0.0E+00	-
Total	23.77	100.0	3.40E+02	100.0	0.00E+00	0.0	0.00E+00	0.0	0.00E+00	0.0	0.00E+00	0.0	0.00E+00	0.0	1.13E-01	100.0	8.49E-02	100.0	9.45E-03	100.0	4.28E-06	100.0	9.61E-04	100.0

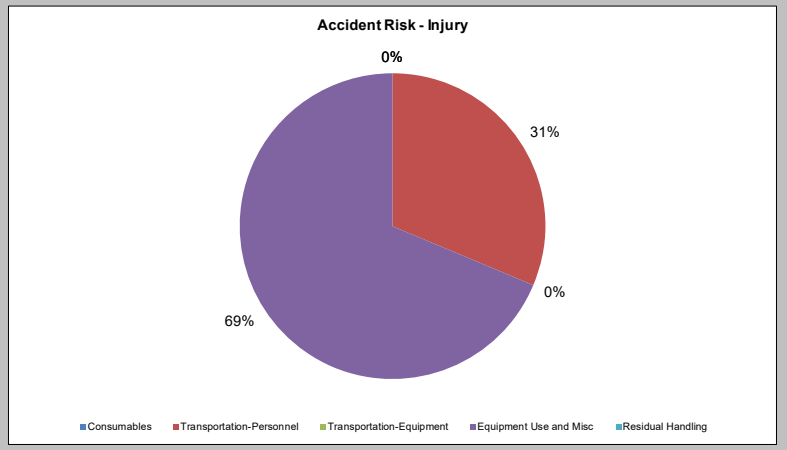

GHG Emissions
99%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

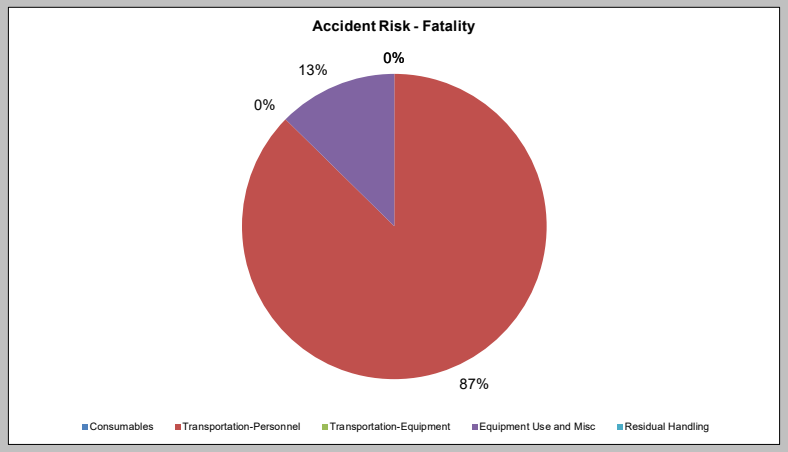

Energy Consumption
99%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Offsite NOx Emissions
0%
100%
Equipment Use and Misc
Residual Handling


Offsite SOx Emissions
0%
100%
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Offsite PM10 Emissions
0%
100%
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Accident Risk - Injury
0%
31%
0%
69%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Accident Risk - Fatality
0%
13%
0%
87%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

This worksheet allows the user to define material production, transportation, equipment use, and residual handling variables for the remedial alternative
Yellow cells require the user to choose an input from a drop down menu
White cells require the user to type in a value

BASELINE INFORMATION

COMPONENT 4 DURATION AND COST	Entire Site
Input duration of the component (unit time)	1
Input component cost per unit time ($)	

MATERIAL PRODUCTION

WELL MATERIALS	Well Type 1	Well Type 2	Well Type 3	Well Type 4	Well Type 5	Well Type 6	Well Type 7	Well Type 8	Well Type 9	Well Type 10	Well Type 11	Well Type 12
Input number of wells												
Input depth of wells (ft)												
Choose specific casing material schedule from drop down menu	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC	Sch 40 PVC
Choose well diameter (in) from drop down menu	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
Input total quantity of Sand (kg)												
Input total quantity of Gravel (kg)												
Input total quantity of Bentonite (kg)												
Input total quantity of Typical Cement (kg)												
Input total quantity of General Concrete (kg)												
Input total quantity of Steel (kg)												

TREATMENT CHEMICALS & MATERIALS	Treatment 1	Treatment 2	Treatment 3	Treatment 4	Treatment 5	Treatment 6	Treatment 7	Treatment 8	Treatment 9	Treatment 10	Treatment 11	Treatment 12
Input number of injection points												
Choose material type from drop down menu	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide	Hydrogen Peroxide
Input amount of material injected at each point (pounds dry mass)												
Input number of injections per injection point												

TREATMENT MEDIA	Treatment 1	Treatment 2	Treatment 3	Treatment 4	Treatment 5	Treatment 6	Treatment 7	Treatment 8	Treatment 9	Treatment 10	Treatment 11	Treatment 12
Input weight of media used (lbs)												
Choose media type from drop down menu	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC	Virgin GAC

CONSTRUCTION MATERIALS	Material 1	Material 2	Material 3	Material 4	Material 5	Material 6	Material 7	Material 8	Material 9	Material 10	Material 11	Material 12
Choose material type from drop down menu	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner	HDPE Liner
Input area of material (ft2)												
Input depth of material (ft)												

WELL DECOMMISSIONING	Well Type 1	Well Type 2	Well Type 3	Well Type 4	Well Type 5	Well Type 6	Well Type 7	Well Type 8	Well Type 9	Well Type 10	Well Type 11	Well Type 12
Input number of wells												
Input depth of wells (ft)												
Input well diameter (in)												
Choose material from drop down menu	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

SILT CURTAIN MATERIALS	Curtain 1	Curtain 2	Curtain 3	Curtain 4	Curtain 5	Curtain 6	Curtain 7	Curtain 8	Curtain 9	Curtain 10	Curtain 11	Curtain 12
Input length or perimeter of silt curtain (ft)												
Input depth of silt curtain (ft)												

BULK MATERIAL QUANTITIES	Material 1	Material 2	Material 3	Material 4	Material 5	Material 6	Material 7	Material 8	Material 9	Material 10	Material 11	Material 12
Choose material from drop down menu	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid	Acetic Acid
Choose units of material quantity from drop down menu	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds
Input material quantity												

TRANSPORTATION

PERSONNEL TRANSPORTATION - ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Choose vehicle type from drop down menu*	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars	Cars
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input distance traveled per trip (miles)	11.4											
Input number of trips taken	2											
Input number of travelers	2											
Input estimated vehicular fuel economy (mi/gal) (Input only if known for the vehicle selected, otherwise a default will be used by the tool)												
*For vehicle type 'Other' please enter values in Table 2b in the Look Up Table tab.												

PERSONNEL TRANSPORTATION - AIR	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input number of travelers												
Input number of flights taken												

PERSONNEL TRANSPORTATION - RAIL	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Choose vehicle type from drop down menu	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail	Intercity rail
Input distance traveled (miles)	11.4											
Input number of trips taken	2											
Input number of travelers	1											

EQUIPMENT TRANSPORTATION - DEDICATED LOAD ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Account for an empty return trip?	No	No	No	No	No	No	No	No	No	No	No	No
Input one-way distance traveled (miles) with a given load. If applicable, impact for an empty return trip will be accounted for (no additional input is needed).												
Input weight of equipment transported per truck load (tons)												

EQUIPMENT TRANSPORTATION - SHARED LOAD ROAD	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of equipment transported (tons)												

EQUIPMENT TRANSPORTATION - AIR	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of equipment transported (tons)												

EQUIPMENT TRANSPORTATION - RAIL	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (miles)												
Input weight of load (tons)												

EQUIPMENT TRANSPORTATION - WATER	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	Trip 6	Trip 7	Trip 8	Trip 9	Trip 10	Trip 11	Trip 12
Input distance traveled (mile)												
Input weight of load (tons)												

EQUIPMENT USE

EARTHWORK	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose earthwork equipment type from drop down menu	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be removed (yd3)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

DRILLING	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Event 12
Input number of drilling locations												
Choose drilling method from drop down menu	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push	Direct Push
Input time spent drilling at each location (hr)												
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel

TRENCHING	Trencher 1	Trencher 2	Trencher 3	Trencher 4	Trencher 5	Trencher 6	Trencher 7	Trencher 8	Trencher 9	Trencher 10	Trencher 11	Trencher 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
Input operating hours (hr)												

SEDIMENT DREDGING	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose dredge equipment type from drop down menu	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Choose dredge fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be dredged (yd3)												
Choose dredge equipment size	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1 C
Suggested dredge equipment size	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1	wler Crane, 25 ton, 1
Input number of dredge tenders (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Choose dredge tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for dredge tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of scow tenders (default already present, user override possible)	2	2	2	2	2	2	2	2	2	2	2	2
Choose scow tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for scow tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of research vessels (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Input operating time for research vessels (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

SEDIMENT MANAGEMENT (STAGING AND DRYING)	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose earthwork equipment type from drop down menu	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane	Crawler Crane
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of material to be removed (yd3)												
Is volume input that of saturated sediment?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Will the sediment be dry when this work is performed?	No	No	No	No	No	No	No	No	No	No	No	No
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

SEDIMENT CAPPING	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose capping method from drop down menu	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release	Surface Release
Choose capping equipment fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input volume of capping material to be placed (yd3)												
Choose capping equipment size/type	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge
Suggested capping equipment size/type	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge	Hopper Barge
Input number of dredge tenders (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Choose tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for dredge tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of scow tenders (default already present, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose scow tender fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating time for scow tenders (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of research vessels (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Input operating time for research vessels (hr) (default calculated value, user override possible)	0	0	0	0	0	0	0	0	0	0	0	0
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

WATERCRAFT OPERATION	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose size of research vessel from drop down menu	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large	Research Vessel (large
Choose research vessel fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input number of vessels												
Input operating time (hours)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

For each pump, select only one of the three methods to calculate energy and GHG emissions
Enter "0" for all user input values for unused pump columns or unused methods

PUMP OPERATION	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Pump 9	Pump 10	Pump 11	Pump 12
Choose method from drop down	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1
Method 1 - ELECTRICAL USAGE IS KNOWN												
Input pump electrical usage (KWh)	0	0	0	0	0	0	0	0	0	0	0	0
Method 2 - PUMP HEAD IS KNOWN												
Input flow rate (gpm)	0	0	0	0	0	0	0	0	0	0	0	0
Input total head (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of pumps operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each pump (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Pump efficiency (default already present, user override possible)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Pump motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Input specific gravity (default already present, user override possible)	1	1	1	1	1	1	1	1	1	1	1	1
Method 3 - NAME PLATE SPECIFICATIONS ARE KNOWN												
Input pump horsepower (hp)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of pumps operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each pump (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Percent of max speed for pump motor (Optional input for variable speed motor)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Pump load if max motor speed draws full nameplate horsepower	1	1	1	1	1	1	1	1	1	1	1	1
Input pump load (default already present, user override possible, consider above value)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Pump motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

DIESEL AND GASOLINE PUMPS	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Pump 9	Pump 10	Pump 11	Pump 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1	2-Stroke: 0 to 1
Equipment operating hours (hrs)												
Input estimated fuel consumption rate (gal/hr) (Input only if known for the pump selected, otherwise a default will be used by the tool)												

For each type of equipment, select only one of the methods to calculate energy and GHG emissions
Enter "0" for all user input values for unused equipment columns or unused methods

BLOWER, COMPRESSOR, MIXER, AND OTHER EQUIPMENT	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose type of equipment from drop down	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower	Blower
Choose method from drop down	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1	Method 1
Method 1 - NAME PLATE SPECIFICATIONS ARE KNOWN												
Input equipment horsepower (hp)	0	0	0	0	0	0	0	0	0	0	0	0
Input number of equipments operating	0	0	0	0	0	0	0	0	0	0	0	0
Input operating time for each equipment (hrs)	0	0	0	0	0	0	0	0	0	0	0	0
Percent of max speed for motor (Optional input for variable speed motor)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Equipment load if max motor speed draws full nameplate horsepower	1	1	1	1	1	1	1	1	1	1	1	1
Input equipment load (default already present, user override possible, consider above value)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Equipment motor efficiency (default already present, user override possible)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Method 2 - ELECTRICAL USAGE IS KNOWN												
Input equipment electrical usage, if known (kWh)	0	0	0	0	0	0	0	0	0	0	0	0
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

GENERATORS	Generator 1	Generator 2	Generator 3	Generator 4	Generator 5	Generator 6	Generator 7	Generator 8	Generator 9	Generator 10	Generator 11	Generator 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Input operating hours (hr)												

AGRICULTURAL EQUIPMENT	Tillage Tractor 1	Tillage Tractor 2	Tillage Tractor 3	Tillage Tractor 4	Tillage Tractor 5	Tillage Tractor 6	Tillage Tractor 7	Tillage Tractor 8	Tillage Tractor 9	Tillage Tractor 10	Tillage Tractor 11	Tillage Tractor 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input area to till (acre)												
Choose soil condition from drop down menu	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil	Firm untilled soil
Choose soil type from drop down menu	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil	Clay Soil
Input time available (work days)												
Input depth of tillage (in)												

CAPPING EQUIPMENT	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose stabilization equipment type from drop down menu	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller	Roller
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input area (ft2)												
Input time available (work days)												

MIXING EQUIPMENT	Mixer 1	Mixer 2	Mixer 3	Mixer 4	Mixer 5	Mixer 6	Mixer 7	Mixer 8	Mixer 9	Mixer 10	Mixer 11	Mixer 12
Choose fuel type from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Choose horsepower range from drop down menu	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
Input volume (yd3)												
Input production rate (yd3/hr)												
Input estimated fuel consumption rate (gal/hr) (Input only if known for the mixer selected, otherwise a default will be used by the tool)												

INTERNAL COMBUSTION ENGINES	Engine 1	Engine 2	Engine 3	Engine 4	Engine 5	Engine 6	Engine 7	Engine 8	Engine 9	Engine 10	Engine 11	Engine 12
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input fuel consumption rate (gal/hr or scf/hr)												
Input operating hours (hr)												

OTHER FUELED EQUIPMENT	Fuel 1	Fuel 2	Fuel 3	Fuel 4	Fuel 5	Fuel 6	Fuel 7	Fuel 8	Fuel 9	Fuel 10	Fuel 11	Fuel 12
Choose fuel type from drop down menu	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas
Input volume (scf for Natural gas, gallons for all others)												

DIESEL EQUIPMENT OPERATION (PER HOUR BASIS)	Equipment 1	Equipment 2	Equipment 3	Equipment 4	Equipment 5	Equipment 6	Equipment 7	Equipment 8	Equipment 9	Equipment 10	Equipment 11	Equipment 12
Choose equipment type from drop down menu	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer	Dozer
Choose equipment size for Dozer (HP)	65	65	65	65	65	65	65	65	65	65	65	65
Choose equipment size for Loader (HP)	65	65	65	65	65	65	65	65	65	65	65	65
Choose equipment size for Excavator (HP)	150	150	150	150	150	150	150	150	150	150	150	150
Choose equipment size for Scraper (HP)	330	330	330	330	330	330	330	330	330	330	330	330
Choose equipment size for Crawler Crane	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1	awler Crane, 25 ton, 1 C
Choose equipment size for Tillage Tractor (HP)	16	16	16	16	16	16	16	16	16	16	16	16
Choose equipment size for Paver (HP)	25	25	25	25	25	25	25	25	25	25	25	25
Choose equipment size for Roller (HP)	6	6	6	6	6	6	6	6	6	6	6	6
Choose equipment size for Trencher (HP range)	6 to 11	7 to 11	8 to 11	9 to 11	10 to 11	11 to 11	12 to 11	13 to 11	14 to 11	15 to 11	16 to 11	17 to 11
Choose fuel type from drop down menu	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Input operating hours (hr)												
Will DIESEL-run equipment be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No

OPERATOR LABOR	Occupation 1	Occupation 2	Occupation 3	Occupation 4	Occupation 5	Occupation 6	Occupation 7	Occupation 8	Occupation 9	Occupation 10	Occupation 11	Occupation 12
Choose occupation from drop-down menu	ntific and technical serv	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers	Construction laborers
Input total time worked onsite (hours)	4.0											

LABORATORY ANALYSIS	Analysis 1	Analysis 2	Analysis 3	Analysis 4	Analysis 5	Analysis 6	Analysis 7	Analysis 8	Analysis 9	Analysis 10	Analysis 11	Analysis 12
Input dollars spent on laboratory analysis ($)												

OTHER KNOWN ONSITE ACTIVITIES	Entire Site
Input energy usage (MMBTU)	
Water consumption (gallon)	
Input CO2 emission (metric ton)	
Input N2O emission (metric ton CO2 e)	
Input CH4 emission (metric ton CO2 e)	
Input NOx emission (metric ton)	
Input SOx emission (metric ton)	
Input PM10 emission (metric ton)	
Input fatality risk	
Input injury risk	

RESIDUAL HANDLING

RESIDUE DISPOSAL/RECYCLING	Soil Residue	Residual Water	Material Residue	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals	Other Residuals
Will DIESEL-run vehicles be retrofitted with a particulate reduction technology?	No	No	No	No	No	No	No	No	No	No	No	No
Input weight of the waste transported to landfill or recycling per trip (tons)												
Choose fuel used from drop down menu	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Input total number of trips												
Input number of miles per trip												

LANDFILL OPERATIONS	Operation 1	Operation 2	Operation 3	Operation 4	Operation 5	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6	Operation 6
Choose landfill type for waste disposal	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous	Non-Hazardous
Input amount of waste disposed in landfill (tons)												
Input landfill methane emissions (metric tons CH4)												
Region												
Electricity Region	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY	NY

THERMAL/CATALYTIC OXIDIZERS*	Oxidizer 1	Oxidizer 2	Oxidizer 3	Oxidizer 4	Oxidizer 5	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6	Oxidizer 6
Choose oxidizer type from drop down menu	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer	Simple Thermal Oxidizer
Choose fuel type from drop down menu	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas
Input waste gas flow rate (scfm)												
Input time running (hours)												
Input waste gas inlet temperature (F)												
Input contaminant concentration (ppmV)												

*(Electric blowers are included in the analysis)

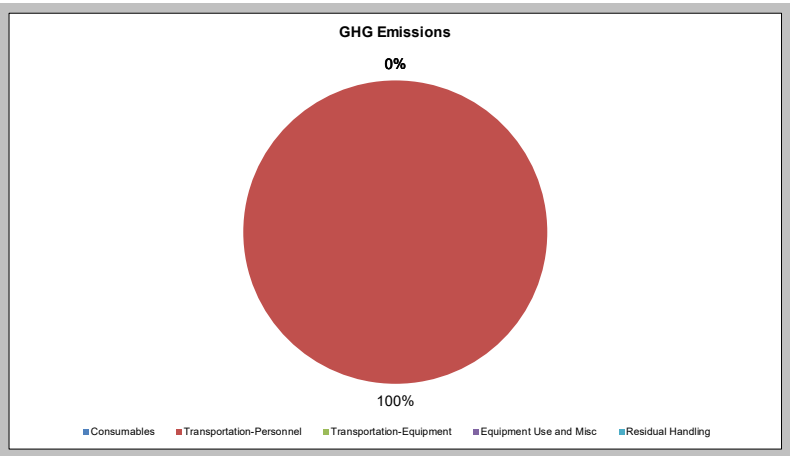
RESOURCE CONSUMPTION

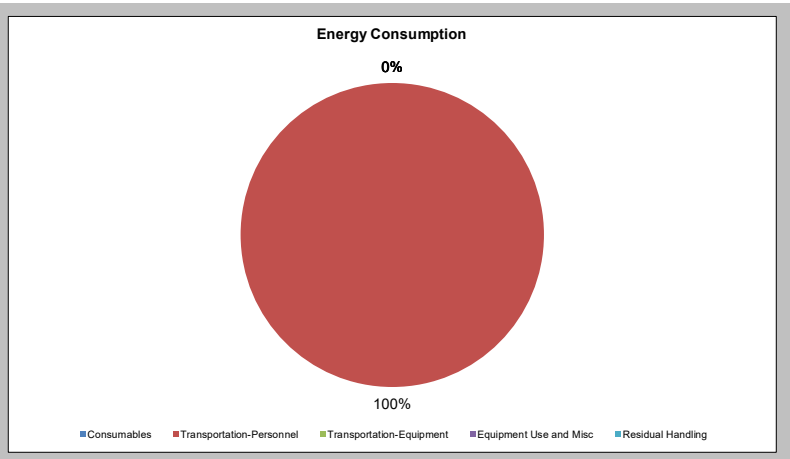
WATER CONSUMPTION	Treatment System 1	Treatment System 2	Treatment System 3	Treatment System 4	Treatment System 5	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6	Treatment System 6
Input total water consumed from potable water treatment facility (gal)												
Input total water disposed to wastewater treatment facility (gal)												

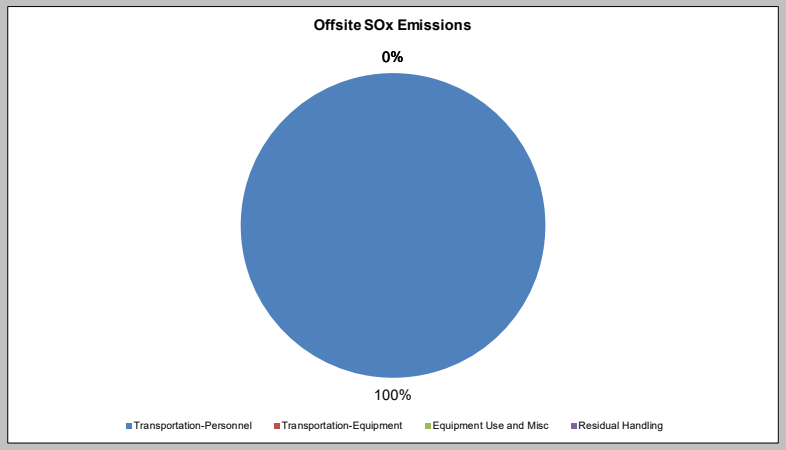
ONSITE LAND AND WATER RESOURCE CONSUMPTION	Entire Site 1	Entire Site 2	Entire Site 3	Entire Site 4	Entire Site 5	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6	Entire Site 6
Input volume of topsoil brought to site (cubic yards)												
Input volume of groundwater or surface water lost (gal)												

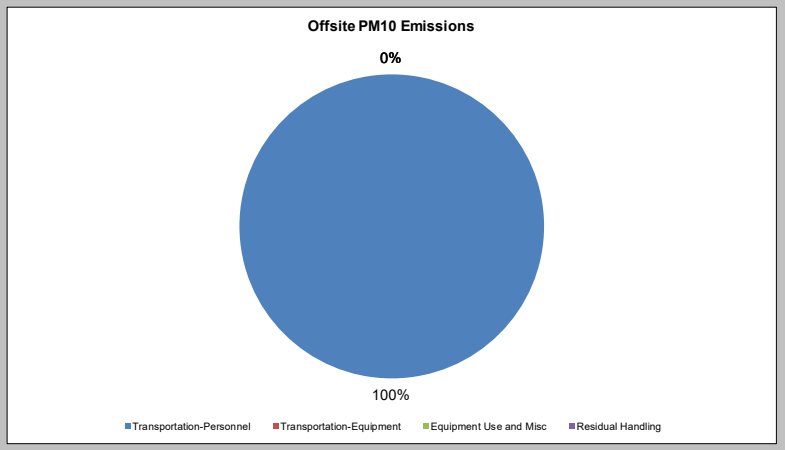
Sustainable Remediation Summary - Monitoring Well Survey, Synoptic Gauging Event, and Removal of Investigation Derived Waste

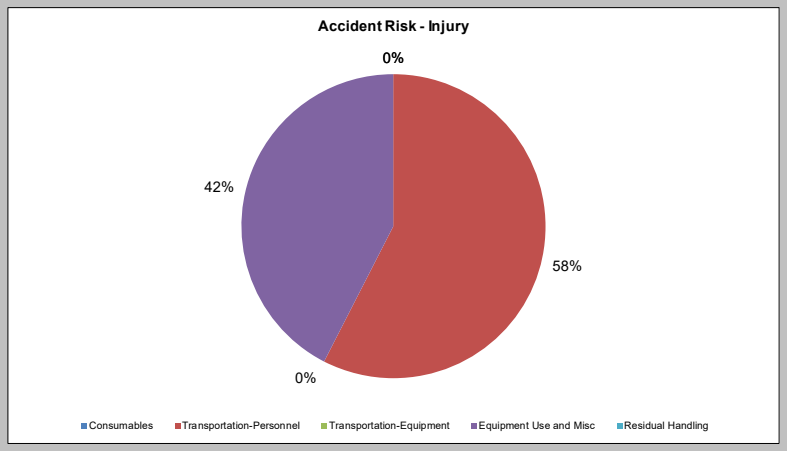
Activities	GHG Emissions	Percent Total	Total Energy Used	Percent Total	Water Consumption	Percent Total	Electricity Usage	Percent Total	Onsite NOx Emissions	Percent Total	Onsite SOx Emissions	Percent Total	Onsite PM10 Emissions	Percent Total	Total NOx Emissions	Percent Total	Total SOx Emissions	Percent Total	Total PM10 Emissions	Percent Total	Accident Risk Fatality	Percent Total	Accident Risk Injury	Percent Total
	metric ton	%	MMBTU	%	gallons	%	MWH	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%	metric ton	%		%		%
Consumables	0.00	-	0.0E+00	-	NA	NA	NA	NA	NA	-	NA		NA	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	NA	NA	NA	NA
Transportation-Personnel	0.01	100.0	1.4E-01	100.0	NA	NA	NA	NA	NA	-	NA		NA	-	3.5E-06	100.0	4.0E-06	100.0	6.9E-07	100.0	3.6E-07	95.3	3.0E-05	57.5
Transportation-Equipment	0.00	-	0.0E+00	-	NA	NA	NA	NA	NA	-	NA		NA	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-
Equipment Use and Misc	0.00	-	0.0E+00	-	0.0E+00	0.0	0.0E+00	0.0	0.0E+00	-	0.0E+00		0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	1.8E-08	4.7	2.2E-05	42.5
Residual Handling	0.00	-	0.0E+00	-	NA	NA	NA	NA	0.0E+00	-	0.0E+00		0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-	0.0E+00	-
Total	0.01	100.0	1.44E-01	100.0	0.00E+00	0.0	0.00E+00	0.0	0.00E+00	0.0	0.00E+00	0.0	0.00E+00	0.0	3.49E-06	100.0	3.99E-06	100.0	6.93E-07	100.0	3.83E-07	100.0	5.18E-05	100.0

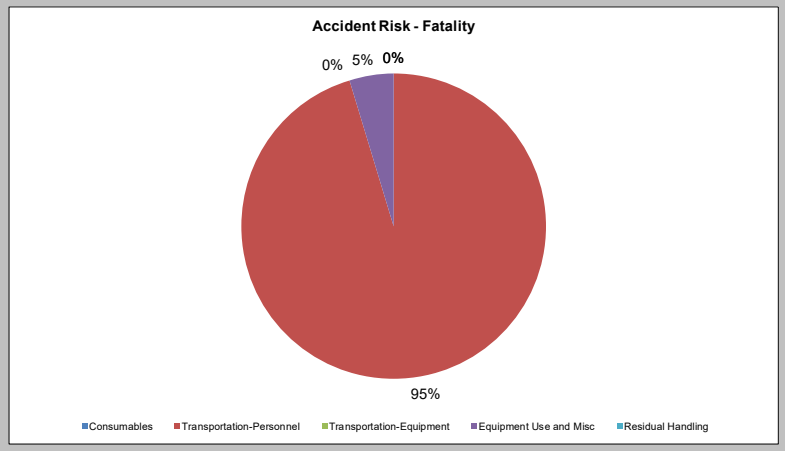

GHG Emissions
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Energy Consumption
0%
100%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Offsite SOx Emissions
0%
100%
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Offsite PM10 Emissions
0%
100%
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Accident Risk - Injury
0%
42%
58%
0%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling


Accident Risk - Fatality
0%
5%
0%
95%
Consumables
Transportation-Personnel
Transportation-Equipment
Equipment Use and Misc
Residual Handling

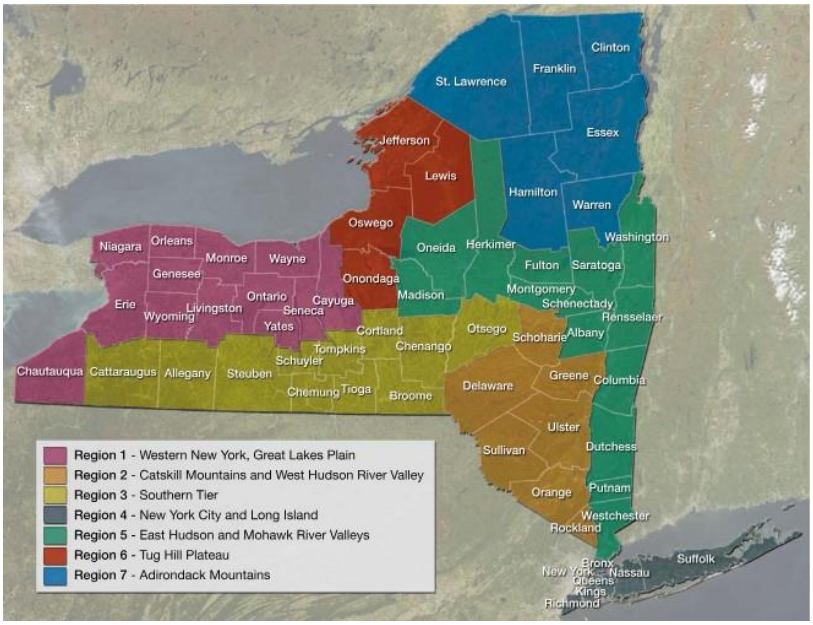
APPENDIX F

CLIMATE SCREENING CHECKLIST

Climate Screening Checklist

Background Information

- **Project Manager**: Lamees Esmail
- **Site Name:** 1480 Sheridan Boulevard
- **Site Number**: TBD
- **Site Location**: 1480 Sheridan Boulevard, Bronx, NY
- **Site Elevation (average above sea level)**: According to the 2017 United States Geological Survey (USGS) 7.5 Minute quadrangle topographic map for Central Park, New York-New Jersey, the site elevation is about 65 feet above mean sea level. The regional topography slopes downward toward the east, toward the Bronx River.
- **ClimAID Region**: Region 4 – New York City and Long Island



- **Remedial Stage/Site Classification**: Remedial Design Stage, Class A
- **Contamination - Media Impacted/ Contaminants of Concern:**

  Based on the source, concentration, frequency, and locations of contaminants identified in soil across the site, the contaminants of concern for the site are: volatile organic compounds (VOC) in soil, groundwater and soil vapor; and semivolatile organic compounds (SVOC) and metals in soil and groundwater. Contaminants of concern will be further identified following implementation of the Remedial Investigation Work Plan (RIWP).

- **Proposed/Current Remedy:**

  The site will be undergoing a remedial investigation to develop a remedy. The remedy will be identified in a forthcoming Remedial Action Work Plan.

- **What is the predicted timeframe of the remedy? Will components of the remedy still be in place in 10+ years?**

  The site will be undergoing a remedial investigation to develop a remedy. The remedy will be identified in a forthcoming Remedial Action Work Plan.

- **Is the site in proximity to any sensitive receptors? (e.g. wetlands, waterbodies, residential properties, hospitals, schools, drinking water supplies, etc.)**

  Land use within a half-mile radius includes residential, commercial, industrial and manufacturing, institutional uses, and parks. Sensitive receptors, as defined in DER-10, located within a half mile of the site are listed below:

Number	Name (Approximate distance from site)	Address
1	Daniel Boone Playground (about 0.01 miles west of the site)	1340 West Farms Road Bronx, NY 10459
2	P.S. X811 (about 0.12 miles west of the site)	1434 Longfellow Avenue Bronx, NY 10459
3	Fannie Lou Hamer Freedom High School (about 0.1 miles northwest of the site)	1021 Jennings Street Bronx, NY 10460
4	Starlight Park Dog Run (about 0.1 miles east of the site)	1374 East 172nd Street Bronx, NY 10459
5	P.S. 066 School of Higher Education (about 0.15 miles northwest of the site)	10001 Jennings Street Bronx, NY 10469
6	Fannie Lou Hamer Middle School – X286 (about 0.15 miles northwest of the site)	10001 Jennings Street Bronx, NY 10460
7	Samara Community School (about 0.3 miles north of the site)	1570 Boone Avenue Bronx, NY 10460
8	Tiny Tunes Daycare Evergreen Inc - XCEQ (about 0.43 miles southeast of the site)	1144 Evergreen Avenue Bronx, NY 10472
9	Saint John Chrysostom School - XADT (about 0.47 miles southwest of the site)	1144 Hoe Avenue Bronx, NY 10459
10	East Bronx Day Care Center - XAHL (about 0.47 miles southeast of the site)	1113 Colgate Avenue Bronx, NY 10472
11	"Magical Beginnings" Day Care (about 0.3 miles northwest of the site)	1016 East 172nd Street Bronx, NY 10460
12	Star Light Start Bright Daycare (about 0.5 miles southeast of the site)	1145 Evergreen Avenue Bronx, NY 10472
13	Fairmont Neighborhood School – X314 (about 0.38 miles northwest of the site)	1550 Vyse Avenue Bronx, NY 10460

Number	Name (Approximate distance from site)	Address
14	Yaby's Family Daycare (about 0.5 miles southwest of the site)	1138 Colgate Avenue Bronx, NY 10472

- **Is the site in a disadvantaged community (DAC) or potential environmental justice area (PEJA) (Use DECinfolocator: DECinfo Locator (ny.gov))?**

  ■ **Yes** ☐ **No**

  The site is located in a disadvantaged community and a potential environmental justice area as shown below (map taken from the DECInfo Locator)



If the site is in a DAC or PEJA, will climate impacts be magnified? If yes, list how and why.

☐ **Yes** ■ **No**

- **Should thresholds of concern be lowered to account for magnification of impacts? If yes, indicate how lower thresholds will be used in the screening.**

☐ **Yes** ■ **No**

Climate Screening Table*

Potential Climate Hazards	**Relevant to the Site Location** (Y/N/NA)[1]	**Projected Change** (Reference data source/Model)[3]	**Potential to Impact Remedy** (Y/N)	**Is remedy/site already resilient?** (Y/N)[4]
Precipitation	Potentially - Based on the Resilience Analysis and Planning Tool (RAPT)	N/A – Based on RAPT	N	Y – Stormwater managed by existing infrastructure.
Temperature [2] (Extreme Heat or Cold Weather Impacts)	Potentially – Based on RAPT	N/A – Based on RAPT	N	Y
Sea Level Rise	N – Based on Sea Level Rise Viewer	N/A	N/A	N/A
Flooding	N – Based on FEMA National Flood Hazard Layer	N/A	N/A	N/A
Storm Surge	N – Based on Storm Surge Hazard Maps	N/A	N/A	N/A
Wildfire	N – Based on RAPT	N/A	N/A	N/A
Drought	N – Based on US Drought Portal	N/A	N/A	N/A
Storm Severity	N – Based on RAPT	N/A	N/A	N/A
Landslides	N – Based on RAPT	N/A	N/A	N/A
Other Hazards:	N – Based on RAPT	N/A	N/A	N/A

* Links to potential data sources can be found on the following page

[1] If the first column is N --> The rest of the columns will be N/A, the hazard is not applicable to the site.

[2] Extreme Heat: periods of three or more days above 90°F- Extreme Cold: Individual days with minimum temperatures at or below 0 degrees F (NYSERDA ClimAID report)

[3] List the projected change in specific terms or units e.g. inches of rain fall, feet of sea level rise, etc.

[4] If final column is Y, provide reasoning, if the final column is N --> Climate Vulnerability Assessment (CVA) required.

Required Next Steps (If no further action is required, provide justification):

No further actions are required.

Potential Data Sources (not an exhaustive list)- from Superfund Climate Resilience: Vulnerability Assessment | US EPA

NYSERDA ClimAID report- Responding Climate Change in New York State (ClimAID) - NYSERDA

FEMA- National Flood Hazard Layer | FEMA.gov
NOAA- National Storm Surge Risk Maps - Version 3 (noaa.gov)

Department of Agriculture Forest Service Wildfire Risk to Communities
EPA Climate Change Indicators in the United States
EPA Climate Resilience Evaluation & Awareness Tool (CREAT) | U.S. Climate Resilience Toolkit

EPA National Stormwater Calculator
National Integrated Drought Information System U.S. Drought Portal
National Interagency Coordination Center National Interagency Fire Center
National Oceanic and Atmospheric Administration Coastal Services Digital Coast

- Resources to help communities assess coastal hazards, such as the Sea Level Rise Viewer for visualizing community-level impacts of flooding or sea level rise and downloadable LIDAR data National Oceanic and Atmospheric Administration National Centers for Environmental Information website

National Oceanic and Atmospheric Administration Sea Level Trends
National Weather Service Climate Prediction Center
National Weather Service National Hurricane Center
National Weather Service Sea, Lake, and Overland Surges from Hurricanes (SLOSH)
National Weather Service Storm Surge Hazard Maps
U.S. Federal Government Climate Resilience Toolkit: The Climate Explorer
U.S. Army Corps of Engineers Climate Prepardness and Resilience
U.S. Geological Survey Coastal Change Hazards Portal
U.S. Geological Survey Landslide Hazards Program
U.S. Geological Survey National Ground-water Monitoring Network Data Portal
U.S. Geological Survey National Climate Change Viewer
U.S. Geological Survey National Water Dashboard
U.S. Geological Survey StreamStats
NYS Department of State- Assess | Department of State (ny.gov)

NYSERDA NY Costal Floodplain Mapper- Home Page (ny.gov)

NYSDEC Costal Erosion Hazards- Coastal Areas Regulated By The CEHA Permit Program - NYDEC

NYSDOH Heat Index- health.ny.gov/environmental/weather/vulnerability_index/county_maps.htm

APPENDIX G

REMEDIATION SCHEDULE

Estimated Project Schedule

Item	Action	2026							2027												2028												2029
		JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
1	Preparation and Submission of BCP Application and RIWP																																
2	NYSDEC Review of the BCP Application and RIWP																																
3	Address NYSDEC Comments to BCP Application and RIWP																																
4	30-Day Public Comment Period for BCP Application and RIWP																																
5	NYSDEC Executes BCA																																
6	Implementation of Remedial Investigation and RIR Preparation																																
7	Preparation and Submission of CPP																																
8	RAWP Preparation																																
9	NYSDEC & NYSDOH Review of RIR and RAWP, including 45-Day Public Comment Period																																
10	NYSDEC Approval of RAWP and Issuance of Decision Document																																
11	Implementation of RAWP with Engineering Oversight																																
12	Preparation of an Environmental Easement, FER, and SMP (if required)																																
13	NYSDEC & NYSDOH Review of FER (and SMP, if required)																																
14	NYSDEC Issues COC																																

Notes:

a) This is an estimated schedule; all items are subject to change.
b) BCP = Brownfield Cleanup Program
c) NYSDEC = New York State Department of Environmental Conservation
d) BCA = Brownfield Cleanup Agreement
e) NYSDOH = New York State Department of Health
f) CPP = Citizen Participation Plan
g) RIWP = Remedial Investigation Work Plan
h) RIR = Remedial Investigation Report
i) RAWP = Remedial Action Work Plan
j) FER = Final Engineering Report
k) SMP = Site Management Plan
l) COC = Certificate of Completion